The Subsistence Harvest of Harbor Seal and Sea Lion by Alaska Natives in 1993

Technical Paper No. 233 Pat-t 2

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Final Report for Year Two
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Frontispiece. Brown bear crest hat. Sitka (Thingit), ornamented with whiskers from the Steller sea lion. The brown bear and sea lion are crests of several Thingit clans in southeast Alaska. The wood hat is painted in red, light blue, and black, with abalone eyes and opercula teeth. The hat was worn by Tlingit nobility at potlatches. Basketry cylinders at the top were added at times the crest hat was ceremonially presented and validated Collected 186768, 69-30-10/1599 Photo courtesy Peabody Museum of Archaeology and Ethnology, Harvard University

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APPENDIX C SUBSISTENCE TAKES OF HARBOR SEAL AND SEA LION BY COMMUNITY

Harbor Seal (Phoca vitulina) Harvest and Take Estimates, 1993

SOUTHEAST ALASKA

PAGE	COMMUNITY
4-5	Angoon
8 - 9	Craig
12-13	Haines
16-17	Hoonah
20-21	Hydaburg
2425	Juneau
28-29	Kake
32-33	Ketchikan
36-37	Klawock
40-41	Klukwan
44-45	Pelican
4849	Petersburg
52-53	Saxman
56-57	Sitka
60-61	Wrangell
64-65	Yakutat

NORTH PACIFIC RIM

PAGE	COMMUNITY
70-71	Chenega Bay
74-75	Cordova
78-79	Nanwalek
82-83	Port Graham
86-87	Seldovia
90-91	Seward
94-95	Tatitlek
98-99	Valdez

UPPER KENAI-COOK INLET

PAGE	COMMUNITY
104-105	Anchorage
108-i 09	Homer
112-113	Kenai

KODIAK ISLAND

COMMUNITY
Akhiok
Karluk
Kodiak City
Larsen Bay
Old Harbor
Ouzinkie
Port Lions

APPENDIX C CONTINUED SUBSISTENCE TAKES OF HARBOR SEAL AND SEA UON BY COMMUNITY

Harbor Seal (Phoca vitulina) Harvest and Take Estimates, 1993

SOUTH ALASKA PENINSULA

PAGE COMMUNITY
148-149 Chignik Bay
152-I 53 Chignik Lagoon
156-I 57 Chignik Lake
160-161 False Pass
164-I 65 Ivanof Bay
168-169 King Cove
172-I 73 Perryville
176-I 77 Sand Point

ALEUTIAN ISLANDS

PAGE COMMUNITY 182-I 83 Akutan 186-187 Atka 190-191 Nikolski 194195 Unalaska

PRIBILOF ISLANDS

PAGE COMMUNITY 200-201 Saint George 204-205 Saint Paul

SOUTH BRISTOL BAY

PAGE COMMUNITY
21 0-21 1 Egegik
214-215 King Salmon
218-219 Levelock
222-223 Naknek
226-227 Pilot Point
230-231 Port Heiden
234235 South Naknek

NORTH BRISTOL BAY

PAGE COMMUNITY
242-243 Aleknagik
250-251 Clark's Point
258-259 Dillingham
266-267 Manokotak
274-275 Togiak

APPENDIX C CONTINUED SUBSISTENCE TAKES OF HARBOR SEAL AND SEA LION BY COMMUNITY

Harbor Seal and Spotted Seal Harvest and Take Estimates, 1993

NORTH BRISTOL BAY

PAGE COMMUNITY
240-241 Aleknagik
248-249 Clark's Point
256-257 Dillingham
264-265 Manokotak
272-273 Togiak

Spotted Seal (Phoca largha) Harvest and Take Estimates, 1993

NORTH BRISTOL BAY

PAGE COMMUNITY
244-245 Aleknagik
252-253 Clark's Point
260-261 Dillingham
268-269 Manokotak
276-277 Togiak

Sea Lion (Eumetopias jubatus) Harvest and Take Estimates, 1993

SOUTHEAST ALASKA

PAGE COMMUNITY 2-3 Angoon 6-7 Craig 10-11 Haines Hoonah 14-15 Hydaburg 18-19 22-23 Juneau Kake 26-27 Ketchikan 30-31 34-35 Klawock 38-39 Klukwan 4243 Pelican 4847 Petersburg 50-51 Saxman 54-55 Sitka 58-59 Wrangell 62-63 Yakutat

APPENDIX C CONTINUED SUBSISTENCE TAKES OF HARBOR SEAL AND SEA UON BY COMMUNITY

Sea Lion (Eumetopias jubatus) Harvest and Take Estimates, 1993

NORTH PACIFIC RIM

PAGE COMMUNITY Chenega Bay 68-69 72-73 Cordova 76-77 **Nanwalek Port Graham** 80-81 84-8s Seldovia 88-89 Seward 92-93 Tatitlek Valdez 96-97

UPPER KENAI-COOK INLET

PAGE COMMUNITY 102-103 Anchorage 106-I 07 Homer 110-111 Kenai

KODIAK ISLAND

COMMUNITY PAGE 116-117 Akhiok 120-l 21 Karluk 124125 Kodiak City 128-129 Larsen Bay 132-133 Old Harbor 136-I 37 Ouzinkie 140-141 Port Lions

SOUTH ALASKA PENINSULA COMMUNITY

146-147 Chignik Bay 150-1 51 Chignik Lagoon 154-155 Chiqnik Lake **158-159** False Pass 162-I 63 Ivanof Bay 166-167 King Cove 170-l 71 Perryville 174-175 Sand Point

PAGE

ALEUTIAN ISLANDS

COMMUNITY PAGE 180-181 Akutan 184-185 Atka 188-i 89 Nikolski **192-193** Unalaska

APPENDIX C CONTINUED SUBSISTENCE TAKES OF HARBOR SEAL AND SEA LION BY COMMUNITY

Sea Lion (Eumetopias jubatus) Harvest and Take Estimates, 1993

PRIBILOF ISLANDS
PAGE COMMUNITY
198-I 99 Saint George
202-203 Saint Paul

SOUTH BRISTOL BAY

PAGE COMMUNITY
208-209 Egegik
212-213 King Salmon
216-217 Levelock
220-221 Naknek
224-225 Pilot Point
228-229 Port Heiden
232-233 South Naknek

NORTH BRISTOL BAY

PAGE COMMUNITY 238-239 Aleknagik 246-247 Clark's Point 254-255 Dillingham 262-263 Manokotak 270-271 Togiak SOUTHEAST ALASKA

TABLE 1. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: ANGOON, 1993

SAMPLING DESIGN: TWO STRATA

Total Active Other Total Native Households 47 83 130 30 76 Surveyed Households 46 Sampling Fraction 9 7 9% 38 1% 58 5% Sample Household Members 206 128 334 Estimated Household Members 210 5 354 1 564 6

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households

Used 0 0 %

Humled 0 0 %

Harvested 0 0 %

Received 0 0%

Gave Away 0 0%

Estimated Community Harvest and Take (Expanded)

Total Number Harvested 0 0

Total Number Struck and Lost 0 0

Total Number Taken 0 0

Number Harvested Per Capita 0 00

Total

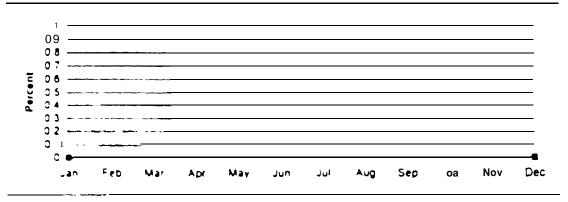
SEA LION HAF	RVEST I	BY SEA	SON									Uni	t nown	
	معد	Feb	Mar	Apr	May	مد	ند	~-	Sep	С	n	No	Dec	Mont
REPORTED HARVE	ST AND T	AKE BY S	AMPLED	HOUSEH	DLDS (UNI	DUP AND ED) 1							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESTIMATED HARVE	EST AND T	TAKE BY	COMMUN	TY (EXPA	NOEDI									
Harvest	00	0.0	0.0	00	00	00	00	00	00	00	00	00	00	0
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	00	00	0
Total Take	0.0	00	00	00	00	00	00	00	00	00	00	00	00	0
ESTIMATED SEASO	ONALLY A	DJUSTED	HARVES	T AND TA	CE BY CO	MMUNITY (EDPANDE	D)						
Harvest	00	0.0	0.0	00	00	0 0	0 0	00	00	00	0.0	0 0		0
Struck and Lost	0.0	0.0	00	00	00	0 0	0 0	00	0 0 (00	00	0 0		0
Total Take	00	00	00	00	0.0	00	0 0	00	00	00	00	0 0		0
Total Take (%)			-											
Cumulative Take	0.0	0.0	00	0.0	00	0 0	0 0	00	00	00	0.0	0 0		
Cum. Take (%)	0.0%	0.0%	0.0%	00%	00%	0 0 8	0.0%	0 0	8 00%	0 0	8 0.0%	0.0%		

SÉA LIUN HARVEST BY AGE AND SEX	Reported By Sample	Percent	Estimated By Community	Percent
	(Unexpended)		(Expended)	
Adult Mob	0	_	00	_
Adult F emale	0		00	
Adult Unknown Sex	0	_	00	_
Juvenile Male	0	_	00	-
Juvenile Female	0	_	00	
Juvenile Unknown Sex	0	_	00	_
Pup Male	0		0.0	
Pup Female	0		00	
Pup Unknown Se ≭	0	_	00	
Male Unknown Age	0		00	
Female Unknown Age	0	•	00	_
Unknown Sex ● d Age	0		0 0	_
Total	0	_	0.0	

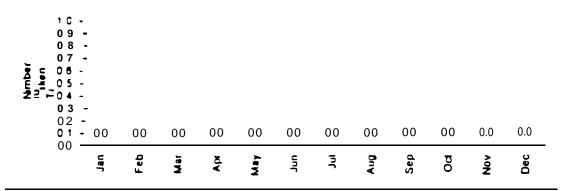
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for See Lions and Harbor Seats in Alaska, with assistance from

the City of Angoon, 1994

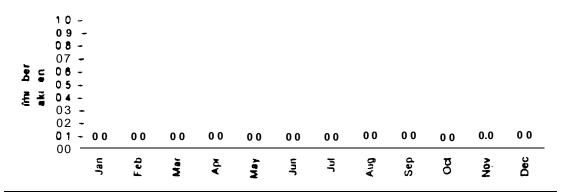
FIGURE 1. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: ANGOON. 1993



B Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Merbor Seals in Alaska, with assistance from the City of Angoon, 1994.

TABLE 2. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: ANGOON, 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total Total Native Households 47 83 130 46 Surveyed Households 30 76 Sampling Fraction 97 9% 36 1% 58 5% Sample Household Members 206 128 334 Estimated Household Members 210 5 354 1 564 6

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households.

Used 47.0%

Hunted 252%

Harvested 16 3%

Received 35 2%

Gave Away 16 0%

Estimated Community Harvest and Take (Expanded)

Total Number Harvested 58 6

Total Number Taken

Total Number Taken

Number Harvested Per Capita

0.10

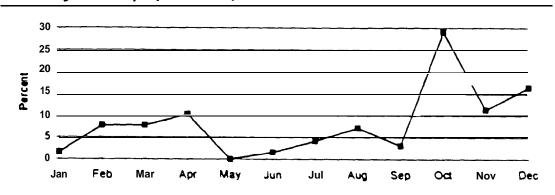
HARBOR SEAL	L HAR	ESI B	Y SEASC	N								L	inknown	
	مهد	Feb	Mar	Apr	May_	ميد	ادو	4	Sec	Oct	Nov	Dec	Month	Total
REPORTED HARVE	STAND	TAKE BY	SAMPLED	HOUSE	+OLDS IUP	POPANOE	D)							
Harvest	1	5	5	5	0	1	1	0	2	19		9	0	5
Struck and Lost	0	0	0	0	0	0	0	1	0	0	2	1	4	
Total Take	1	5	5	5	0	1	1	1	2	19	6	10	4	5
ESTIMATED HARVI	EST AND	TAKE BY	COMMUN	TY (EXP	ANDEDI									
Harvest	1	.0	5.1 5	1 69	00	10	28	00	20	19 4	4.1	9.2	0 0	56.
Struck and Lost	0.0	0.0	00	00	00	0 0	0 0	28	00	00	2.0	1.0	4 1	9.9
Total Take	1	.0	51 5	1 69	00	10	20	28	20	19 4	6 1	10.2	4 1	66
ESTIMATED SEASO	DNALLY A	VOJUSTE	D HARVES	T AND TA	KE BY CO	MMUNITY	EXPANDE	D)						
Hervest	10	5.1	5.1	6.9	00	10	28	0.0	:	20 19 4	4.1	92		56
Struck and Lost	00	0.0	00	00	00	0 0	0.0	47	00	00	3.1	1 7		9
Total Take	1.0	1.1	5 1	6.9	00	10	26	47	20	194	7.6	10.9		66.
Told Take (%)	1.5%	7.n	7.73	10.3%	00%	1 5%	4.2%	7 18	31%	29 2%	11.4%	16 4%		1001
Cumulative Take	1.0	6.1	11.2 18	1	18 1	191	2 1 9	266	28 6	48.0	55 6	66.5		
Curri. Talte (%)	1.58	9.2%	16.9%	272%	27.2%	28 7%	229	40.0%	43.0%	72.2%	83 6%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	29	55 8%	33 1	58 5%
Adult Female	4	77%	41	7.2%
Adult Unknown Sex	3	5 8%	31	5 4%
Juvenile Male	1	19%	10	18%
Juvenile Female	1	19%	10	1 8%
Juvenile Unknown Sex	0	00%	0 0	00%
Pup Male	0	00%	0.0	0.0%
Pup Female	0	00%	0 0	00%
Pup Unknown Sex	0	00%	0.0	o 0%
Male Unknown Age	0	00%	0.0	0.0%
Female Unknown Age	0	00%	0.0	0.0%
Unknown Sex and Age	14	26 9%	14 3	25.3%
Total	52	100 0%		100.0%

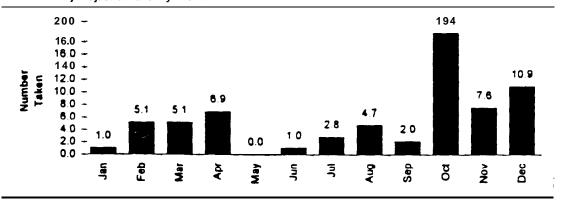
SOURCE:

Alaska Department of Fish and Game: Division of Subsistence, Subsistence Study and Monitor System for See Lions and Herbor Seels in Alaska, with assistance from the City of Angoon, 1994

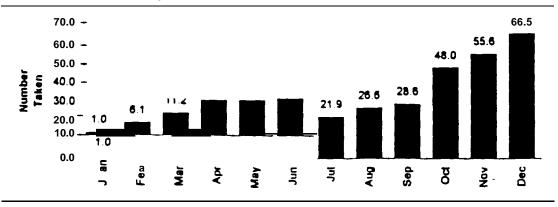
FIGURE 2. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: ANGOON, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for See Lions and Harbor Seels in Alaska, with assistance from the City of Angoon, 1994

TABLE 3. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: CRAIG. 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 25
Surveyed Households 23
Sampling Fraction 92 0%
Sample Household Members 89
Estimated Household Members 98 7

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Hou	iseholds	Estimated Community Harvest and Take (Expande	ed).
Used	0.0%	Total Number Harvested	0 0
Hunted	00%	Tow Number Struck and Lost	0 0
Harvested	00%	Total Number Taken	0.0
Received	0 0%	Number Harvested Per Capita	N/A
Gave Away	0 0%	·	

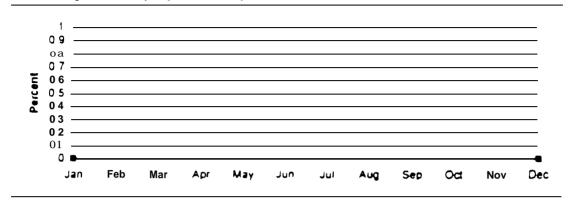
	Jan	Feb							_	_				
			Mar	<u>Apr</u>	May	<u> </u>		<u> 4.0</u>	<u>Seo</u>	<u> </u>	Nov	<u>Dec</u>	Month	Total
REPORTED HARVE	ST AND 1	TAKE BY S	AMPLED I	HOUSEH	DLDS (UN	EUPANDE (וכ							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	C
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	C
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	C
ESTIMATED HARVE	EST AND	TAKE BY	OMMUNI	TY (EXPA	NDED)									
Hervest	00	00	00	00	00	0 0	00	00	0 0	00	0.0	00	0.0	0.0
Struck and Loss	0.0	00	00	00	0 0	00	00	00	00	00	0.0	0 0	0.0	0.0
Total Take	0.0	0.0	00	00	00	00	00	00	00	00	0.0	0.0	0.0	0.0
ESTIMATED SEASO	NALLY A	LOJUSTED	HARVES"	T AND TA	CE BY CO	MMUNITY	EUPANDE	D)						
Hervest	0.0	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0	0.0		0.0
Struck and Lost	0 0	0.0	0 0	0.0	0 0	0 0	0 0	0 0	0 0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0	0 0		0.0
Total Take (%)	_	_	-	-	-	_	_	_	_	-	_	_		
Cumulative Take	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0		
cum. Take (%)	0.08	0.0%	00%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	0	_	0.0	-
Mull Female	0		0 0	_
Mull Unknown sex	0	_	0 0	
Juvenile Male	0		0.0	-
Juvenile Female	0		0.0	
Juvenile Unknown Sex	0	-	0.0	-
Pup Male	0		0.0	-
Pup Female	0	_	0.0	
Pup Unknown Sex	0	-	0.0	-
Male Unknown Age	0	_	0.0	
Female Unknown Age	0	-5-	0 0	
Unknown Sex and Age	0		0 0	
Total	0	-	0.0	

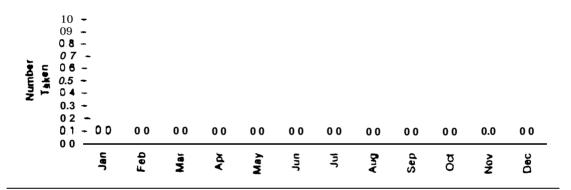
SOURCE:

Alaska Department of Fish and Game, Division of Subassance, Subassance Study and Montor Syssem for Sea Lions and Harbor Seats in Alaska, with assistance from the City of Craig and Shaan-Seet, Inc., 1994.

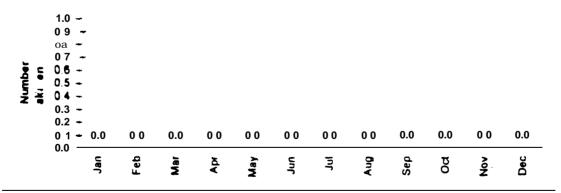
FIGURE 3. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: CRAIG. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Craig and Shaan-Seet, Inc., 1994

TABLE 4. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: CRAIG, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 25
Surveyed Households 23
Sampling Fraction 92 0 %
Sample Household Members 89
Estimated Household Members 96 7

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households
Used 95 7%
Total Number Harvested 51 1
Hunted 60 9%
Harvested 60 9 %
Received 5 2 2 %
Number Harvested Per Capita
N/A
Gave Away 56 5%

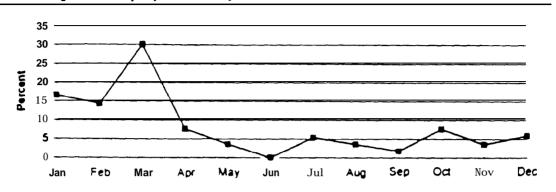
HARBOR SEA	L HAR	VEST BY	/ SEAS	ON								U	inknown	
		Feb	Mar	Apr	May	ميد	ابط	Aug	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	EST AND	TAKE BY	SAMPLED	HOUSEH	DLDS IUNI	EXPANDE:	O)							
Harvest	J	8	13	3	2	0	3	2	1	3	2	2	0	47
Struck and Lost	1	0	3	1	0	0	0	0	0	1	0	1	2	8
"Ital Take	9	J	16		2	0	3	2	1		2	3	2	56
ESTIMATED HARV	EST AND	TAKE BY	COMMUN	ITY (EXPA	NOEDI									
Harvest	8.7	8.7	14	3 3	2 2	0 0	3 3	2 2	1.1	3.3	2 2	2 2	0 0	51 1
Struck and Lost	11	0 0	3 3	11	0 0	0 0	0 0	0 0	0 0	11	0.0	1.1	2.2	9.8
Total Take	9.8	8.7	17 4	4 3	2 2	0 0	3 3	2 2	1 1	4 3	2.2	3.3	2 2	60.9
ESTIMATED SEASO	ONALLY A	ADJUSTE	HARVES	T AND TA	KE BY CO	MMUNITY	(EXPANO)	EDI						
Harvest	8.7	8.7	14 1	3 3	2 2	0 0	3 3	2 2	1 1	3.3	2.2	2.2		51 1
Struck and Lost	1 4	0.0	4 2	1 4	0 0	0 0	0 0	0 0	0 0	1 4	0.0	14		9.8
Total Take	101	8.7	18.3	4 7	2.2	0 0	3.3	2.2	1.1	47	2 2	3.6		8.9
Total Take (%)	16.6%	14.3%	30.1%	77%	3.6%	0.0%	5.4%	3.6%	1.8%	77%	3.6%	5. 91		100%
Cumulative Take	l o. 1	18.8	371	41.8	43.9	439	47.2	49 4	50.5	55.1	57.3	60.9		
cum. Take RI	16.6%	30.9%	61.0%	69 6%	72.2%	72.2%	77 6%	81 1 %	82.91	90.6%	94 1%	100.0%		

HARBOR SEAL	HARVEST BY AGE AND SEX	Reported		Estimated	
		By Sample	Percent	By Community	Percent
		(Unexpanded)		(Expanded)	
	Adult Mole	27	57 4 %	29.3	57 4%
	Adult Female	17	34.2%	16.5	36.2%
	Adult Unknown Sex	2	43%	2.2	4 3%
	Jwenik Male	0	00%	0.0	0.0%
	Juvenile Female	1	2.1%	1.1	2.1%
	Juvenile Unknown Sex	0	00%	0.0	0.0%
	Pup Maie	0	00%	0.0	0.0%
	Pup Female	0	00%	0.0	0.0%
	Pup Unknown Sex	0	0.0%	0.0	0.0%
	Male Unknown Age	0	0.0%	0.0	0.0%
	Female Unknown Age	0	00%	0.0	0.0%
	Unknown Sex and Age	0	0.0%	0.0	0.0%
	Total	47	100.0%	51.1	100.0%

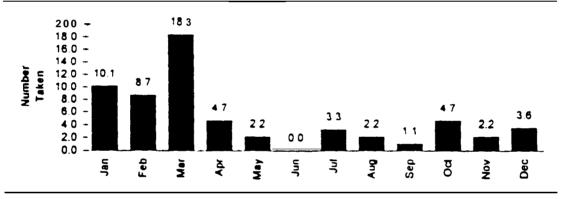
Alasks Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Craig and Shaan-Seat, Inc., 1994.

SOURCE

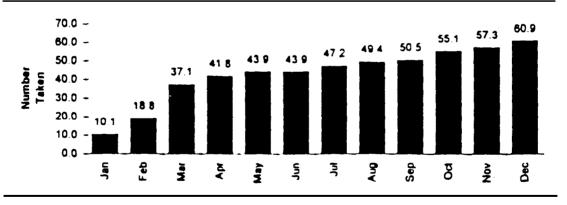
FIGURE 4. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: CRAIG. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Aleaka Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for See Lone and Herbor Seets in Aleaka, with assistance from the City of Craig and Shaan-Seet, Inc., 1994.

TABLE 5. SEA LION (Eumetopias jubetus) HARVEST AND TAKE ESTIMATES: HAINES, 1993

SAMPLING DESIGN CHAIN REFERRAL

Total Sample Households 23
Surveyed Households 20
Sampling Fraction 87 0%
Sample Household Members 70
Estimated Household Members 80 5

SEALION HARVEST AND USE INFORMATION

Percent Of Sample Households

Used 0 0%

Humled 0 0%

Total Number Harvested 0 0 0%

Harvested 0 0%

Total Number Struck and Lost 0 0 0 000

Harvested 0 0%

Received 0 0%

Received 0 0%

Gave Away 0 0%

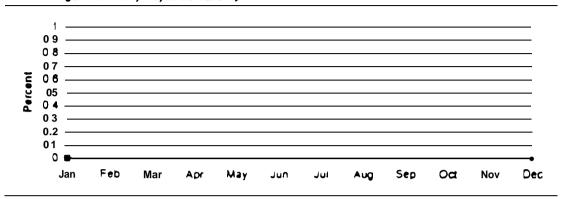
SEA UON HAR	VEST L	Y SEA	SON									U	inknown	
		Feb	-	Apr	Mey	مرو	14.6	4-9	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	s' MC'	WE PT S	ادعاصيه	~OUSE →C	بنان، ≥تب	EUPANOE!) i							
Herved	0	0	0	0	0	C	0	0	0	0	0	0	0	â
Struck and Loss	0	Э	٥	0	0	0	0	0	0	0	0	0	0	(
Total Tare	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HAPVI	EST AND '	WE BY	CHANGE C	TOPA	NDEDI									
marveyl	00	00	00	00	00	00	00	00	00	00	0.0	0.0	00	00
Struct and Loss	00	00	00	00	00	00	00	00	00	0 0	0.0	0.0	0.0	0.0
Total Take	00	00	00	00	00	00	00	00	00	00	0.0	0.0	0.0	0.0
ESTIMATED SEASO	MALLY A	CJUSTED	MARVE ST	AND TAK	E BY CO	MUNTY	EXPANDE	D1						
Harvest	00	00	00	00	00	00	0 0	00	00	00	0.0	0.0		0.0
Struck and Loss	00	00	00	00	00	00	0 0	0 0	00	0.0	0.0	0.0		0 0
Total Take	00	00	00	00	00	00	0 0	00	00	00	0.0	0.0		0.0
Total Taxe (%)														
Cumulative Take	00	00	00	00	0.0	0 0	0 0	00	00	00	0.0	0.0		
Cum. Take (%)	00%	0.0%	0.0%	00%	00%	0.0%	00%	0.0%	003	008	0.0%	0.08		

SEA LION HARVEST BY AGE	AND SEX	A	percod		Esemened	
		5,	Sample	Percent	By Community	Percent
		(Unest)	(Debnaed)		(Expanded)	
Adult	M	lale	0	_	00	
Adult	F	emale	0	-	00	
Adult	Unknown	n Sex	0	_	00	
Juvenile		Male	0	_	00	
Juvenile	F	emale	0	-	0.0	
Juvenile	Unkno	wn Sex	0	_	0.0	_
Pup	M.	ale	0	-	0.0	-
Pup	Fen	nale	0		0.0	
Pup	Unknown	Sex	0		0.0	_
Male	Unknown		0		00	
Female	Unknow		Ö	_	00	_
	n Sex and A		Ö	_	00	-
Total		_	0	-	0.0	-

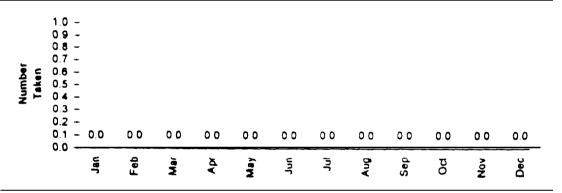
Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Ses Lions and Harbor Sesis in Alaska, with assistance from the Chillust Indian Association, 1984.

SOURCE

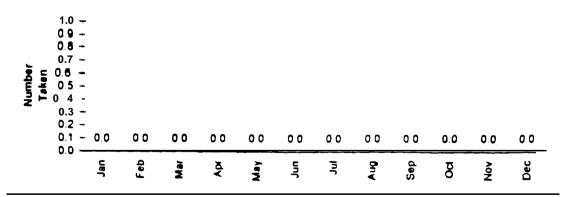
FIGURE 5. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: HAINES. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Freh and Game. Division of Subaistance. Subaistance Study and Monitor System for See Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Association. 1994.

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 23
Surveyed Households 20
Sampling Fraction a7 0%
Sample Household Members 70
Estimated Household Members 80 5

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households	Estimated Community Harvest and Take (Expande	ed)
Used 80 0 %	Total Number Harvested	23 0
Hunted 65 0%	Total Number Struck and Lost	2 3
Harvested 40 0%	Total Number Taken	25 3
Received so 0%	Number Harvested Per Capita	N/A
Gave Away 40 0%		

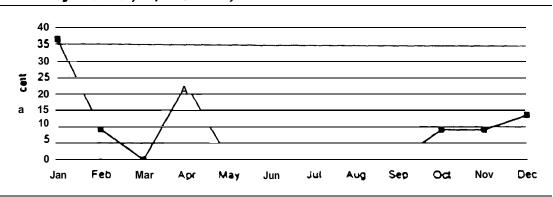
HARBOR SEA	L HAR	/EST B	Y SEAS	ON								Ĺ	Inknown	
	Jan	Feb	Mar	Apr	May_	ميد	ايو	Aug	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARV	EST AND	TAKE BY	SAMPLE	HOUSE	OLDS (UI	NEWANDE	(D)							
Harvest	8	2	0	3	0	0	0	0	0	2	2	3	0	8
Struck and Lost	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Total Take	8	2	0	5	0	0	0	0	0	2	2	3	0	22
ESTIMATED HARV	EST AND	TAKE BY	COMMUN	MY (E)PA	MDED)									
Harvest	9.2	2.3	00	35	00	00	00	00	00	23	2.3	3.5	0.0	23 0
Struck and Lost	0.0	00	00	23	00	0 0	0 0	00	00	00	00	0 0	0 0	2.3
Total Take	9.2	23	00	5.8	00	0 0	0 0	00	00	2.3	2.3	3.5	0.0	25.3
ESTIMATED SEAS	ONALLY	NOJUSTE	D HARVES	AT CINA TA	KE BY CO	MMUNITY	(E)PANOE	D)						
Hervest	9.2	23	00	35	00	0 0	0 0	00	00	2.3	23	3.5		2 3 0
Struck and Lost	0.0	0.0	00	23	00	0 0	0 0	00	00	00	00	0 0		2 3
Total Take	9.2	23	0.0	5.8	00	0 0	0 0	00	00	2.3	23	3.5		25.3
Total Take (%)	36.4%	0.18	008	227%	008	0 0 8	00%	800	00%	1%	9.1%	13.6%		100%
Cumulative Take	92	11.1	11 5	17 3	3 173	17 3	17 3	17	3 17.3	19.6	219	25.3		
Cum Take (%)	36.4%	45.5%	45.5%	68.2%	68.2%	88 2%	68 2%	58 2%	68 2%	77 3%	86 4%	100.0%		

HARBOR SEAL HARVEST BY ACE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Mob	12	600%	13.8	60.0%
Adult Female	4	200%	462	00%
Adult Unknown Sex	3	15 0%	3.5	15 0%
Juvenile Male	0	00%	0 0	0.0%
Juvenile Female	0	00%	0 0	00%
Juvenile Unknown Sex	1	50%	1.2	5.0%
Pup Male	0	00%	0 0	00%
Pup Female	0	00%	0 0	00%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	00%	0.0	00%
Femrb Unknown Age	0	00%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	20	100.0%	23.0 1	00.0%

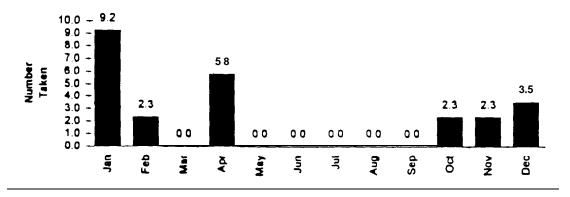
Aleska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for See Lions and Harbor Seets in Aleska, with assistance from the Chillket Indian Association, 1994.

SOURCE:

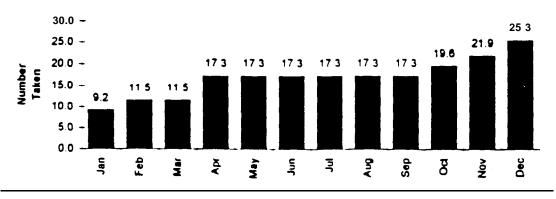
FIGURE &. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: HAINES. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game. Division of Subarstance: Subarstance Study and Montor System for Sea Lone and Harbor Seas in Alaska, with assistance from the Children Association: 1994.

TABLE 7. SEA LION (Eumetopias jubetus) HARVEST AND TAKE ESTIMATES: HOONAH, 1993

SAMPLING DESIGN: TWO STRATA

SOURCE

Active Other Total Total Native Households 57 98 155 53 33 Surveyed Households 86 Sampling Fraction 93 0% 3 3 7 % 5 5 5% Sample Household Members 224 115 339 Estimated Household Members 240 9 341 5 582 4

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households

Used 0 0 %

Total Number Harvested 0 0 Hunted 0 0 %

Harvested 0 0 %

Total Number Struck and Lost 0 0 Total Number Taken 0 0 Number Harvested 0 0 Number Harvested 0 0 %

Received 0 0 %

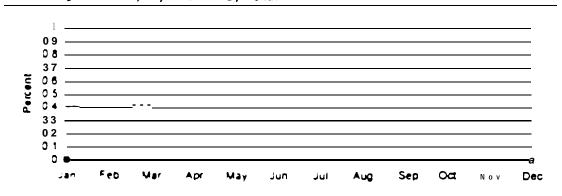
Number Harvested Per Capita 0 00 Gave Away 00%

SEA LION HAP	RVEST	BY SEA	SON									ι	nknown	
	معد	Feb	Mar	Apr	May	سد	مد	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND 1	AKE BY S	AMPLED !	HOUSEHO	LOS IUNE	DOPANOED)					-		
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVE	EST AND	TAKE BY	COMMUNI	TY (E)PA	NOEDI									
Harvest	0 0	0.0	00	00	00	00	0 0	00	00	00	0.0	0 0	0.0	0 0
Struck and Lost	0.0	00	00	0.0	00	00	0 0	0.0	00	00	0.0	0 0	0.0	0 0
Total Take	0 0	00	00	00	00	00	0 0	0.0	0 0	00	0.0	0.0	0.0	0 0
ESTIMATED SEASO	DNALLY A	WUSTED	HARVEST	AND TAK	E 67 004	MAUNITY (EDPANOE	D۱						
Hervest	0.0	0.0	00	00	00	00	0 0	00	00	00	0.0	0 0		0 0
Struck and Lost	0.0	0.0	0.0	00	00	00	0 0	00	00	00	0.0	0 0		0 0
Total Take	0.0	0.0	00	00	00	00	0 0	00	00	00	0.0	0.0		0.0
Total Take (%)														
Cumulative Take	0.0	0.0	0.0	00	00	00	0 0	00	00	00	0 0	0 0		
cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	00%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

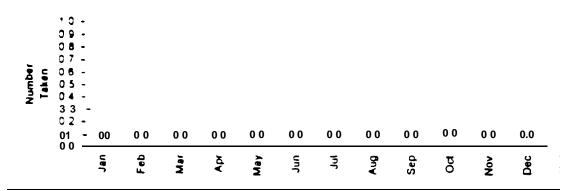
SEA LION HARVEST BY AGE AND SEX	Personed		Estamented	
	By Samore	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	_	00	_
Adult Female	0	_	00	_
Adult Unknown Sex	0	_	00	
Juvenile Male	0	_	00	
Juvenile Female	0	_	00	_
Juvenile Unknown Sex	0	_	00	-
Pup Male	0	-	0.0	-
Pup Female	0	-	0.0	
Pup Unknown Sex	0	_	0.0	-
Male Unknown Age	0	_	00	
Female Unknown Age	0	_	00	
Unknown • M 🗵 • • 🕟 Age				
Total		-		

Alaska Department of Fish and Game. Division of Subastance: Subastance Study and Monitor System for Sea Liona and Harbor Seals in Alaska, with assistance from the Hoonah Traditional Council. 1994.

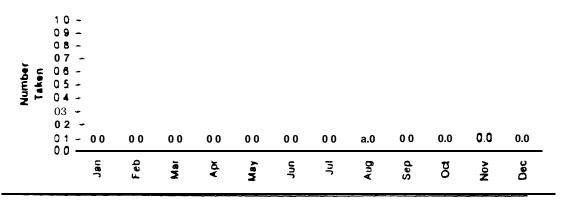
FIGURE 7. SEA LION (Eumetopias jubetus) TAKE ESTIMATES: HOONAH, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Frsh and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Sears in Alaska, with assistance from the Hoonah Traditional Council. 1994.

TABLE 8. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: HOONAH, 1993

SAMPLING DESIGN: TWO STRATA

Active other Total **Total Native Households** 57 98 155 53 33 Surveyed **Households** 86 Sampling Fraction 93 0% 33 7% 55 5% Sample Household Members 2.24 115 339 Estimated Household Members 240 9 341 5 582 4

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households
Used 83 8%
Hunted 38 0%
Harvested 35 4%
Received 64 0 %
Gave Away 41 7%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 324.4

Total Number Struck and Lost 35.6

Total Number Taken 380.2

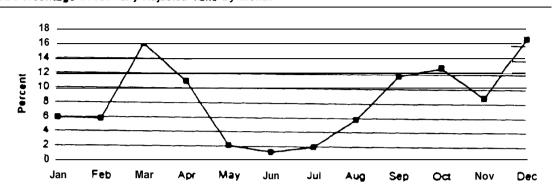
Number Harvested Per Capita 0.56

HARBOR SEAL	- HAR	EST BY	' SEASC	ON								Unk	nown	- 1
	Jen	Feb	Mar	Apr	May_	مينز	ابخ	4	Sec	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND	TAKE BY S	SAMPLED	HOUSEH	OLDS (UN	EUPANOE	וֹם							
Harvest	18	13	38	27	7	4	5	18	3 3	'34	28	52	0	277
Struck and Lost	0	2	3	2	0	0	1	1	2		1	2	10	2 8
Total Taire	18	15	41	2 9	7		6	19	35	38	29	54	10	305
ESTIMATED HARVI	EST AND	TAKE BY	COMMUN	ITY (EXPA	WDEDI									
Harvest	2 1 3	17 8	50 3	a s	7 5	4 3	5 4	194	303	40 4	30 1	57.8	0 0	324 4
Struck and Lost	0.0	2 2	5 1	S 0	0 0	0 0	1 1	1 1	2 2	4.3	11	2.2	108	35.8
Total Take	21.3	199	55.5	36 9	7 s	4 3	6.5	20 4	41 .	44 7	31.2	0.00	10.8	360.2
ESTIMATED SEASO	NALLY A	NOJUSTED	HARVES	T AND TA	KE BY CO	MMUNITY	(EXPANDE	EDI						
Hervest	21 3	17.8	so.3	30.9	7 5	4.3	5.4	19 4	39 3	40 4	30 1	57 8		324 4
Struck and Lost	0 0	3.1	7 3	a.5	0 0	0 0	1 5	1 5	3 1	6 1	15	3 1		35.8
Total Take	21.3	20.8	57 7	39 4	7 s	4 3	6 9	20 9	42 4	46 5	31.6	60 9		360.2
Total Take (%)	5.9%	5.8%	16.0%	10.9%	2.1%	1.2%	19%	58%	11.8%	12.9%	8.8%	16.9%		100%
Cumulative Take	21.3	42.1	90 8	139.2	146 7	151 0	157 9	178 8	2212	267 7	299.3	360.2		
Curn Take (%)	5.9%	11.7%	27 7%	38 6%	40.7%	41 9%	43.8%	49 6%	61 4%	74 3%	83.1%	100.0%		

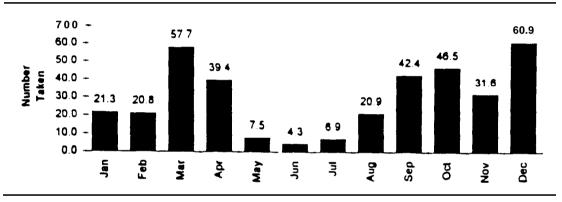
HARBOR SEAL HARVEST BY	AGE AND SEX	Rep	beno		Estimated	
		By Sa	ипри Р	ercent By	Community	Percent
		(Unexper	ndedi		(Expanded)	
Adult	Male	112	40 4%	137	7 5	424%
Adult Fer	nale		7 3 2	26 4%	88.0	271%
Adult Uni	known Sex		68 24	5%	73.1	22.5%
Jwenik	Male	12	4	3%	12.9	40%
Juvenile	Female)	5	1 8%	54	1 7%
Juvenile	Unknown	Sex	7	25%	7 5	2.3%
Pup	Male	0		00%	0.0	0.0%
Pup	Female	0		00%	0.0	0 0%
Pup	Unknown	Sex	0	00%	0.0	0.0%
Male	Unknown	Age	0	00%	0.0	0.0%
Female	Unknown	Age	0	00%	0.0	00%
Unknown	Sex and Age		0 (00%	0	0 0.0%
Total	277		100.0%	6	3244	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for See Lions and Harbor Seels in Alaska, with assistance from the Hoonah Traditional Council, 1994

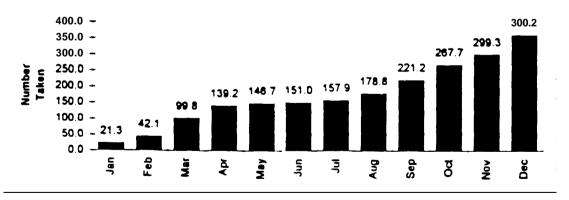
FIGURE 8. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: HOONAH. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fish and Game, Division of Subsistence, Suberstence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Hoonah Traditional Council, 1994.

TABLE 9. SEA LION (Eurnetopies jubatus) HARVEST AND TAKE ESTIMATES: HYDABURG. 1991

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 14
Surveyed Households 14
Sampling Fraction 100 0%
Sample Household Members 47 0

SEA LION HARVEST AND USE INFORMATION

Percent or Sample Households

Used 0 0 %

Hunted 0 0 %

Harvested 0 0 %

Total Number Harvested 0 0 Harvested 0 0 Now

Total Number Struck and Lost 0 0 Now

Total Number Taken 0 0 Now

Received 0 0 %

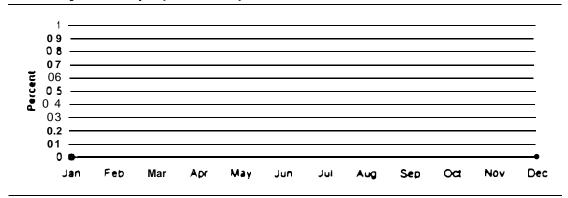
Received 0 0 %

Gave Away 0 0 %

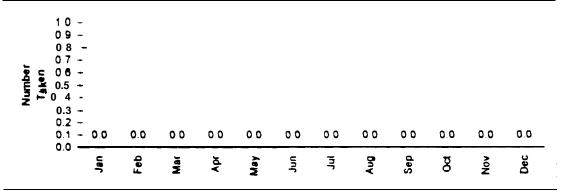
SEA LION HAP	RVEST (BY SEA	SON									u	inknown	
	Jan	Feb	Mar	Apr	May	ميد	نبذ		Seo	Oct	Nov	Dec	Month	TOW
REPORTED HARVE	ST AND	TAKE BY S	AMPLED H	OUSEHO	DLDS IUNE	DUPANDE	ול							
Hervest	0	0	0	0	0	0	3	٥	0	0	0	0	0	0
Struck and Loss	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	3	0	0	0	0	0	0
ESTIMATED HARVE	ST AND	TAKE BY C	COMMUNIT	Y (EOPA	NDEDI									
Harvest	0.0	0.0	00	00	00	00	0 0	00	00	00	00	0.0	0.0	0 0
Struck and Lost	0.0	00	0.0	00	00	00	0 0	00	00	00	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	00	00	00	0 0	00	00	00	0.0	0.0	0.0	0.0
ESTIMATED SEASO	NALLYA	DJUSTED	HARVEST	AND TAK	E BY CO	MUNITY	EPANOE	D)						
Harvest	0.0	0.0	0.0	00	00	00	0 0	00	00	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	00	0.0	0.0	00	0 0	00	00	0.0	00	0 0		0.0
Total Take	0.0	0.0	0.0	0.0	00	00	0 0	00	00	0.0	00	0 0		0.0
Total Take (%)	_	-	_	_	_	-	-	-		-	-	_		
Cumulative Take	0.0	0.0	00	0.0	00	00	0 0	00	00	00	0.0	0.0		
cum. Taire (%)	0.0%	0.0%	0.0%	800	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE	AND SEX	Pe	pernog		Estimated	
		By S	emple	Percent	By Community	Percent
		(Unexp	ended)		(Expanded)	
Adult	Male		0		0.0	
Mull	Female		0		00	
Adult	Unknown	Sex	0	_	0.0	
Juvenile	Male		0		00	
Juvenile	Female)	0	-	00	
Juvenile	Unknown	Sex	0	_	0.0	
Pup Male			0	_	0.0	
Pup	Female		0		0.0	
Pup	Unknown	sex	0	-	0.0	
Male	Unknown	Age	0		0.0	_
Female	Unknown	Age	0	_	0.0	_
Unknown	Sex and Age	•	0	_	0.0	
Total	•		0		0.0	_

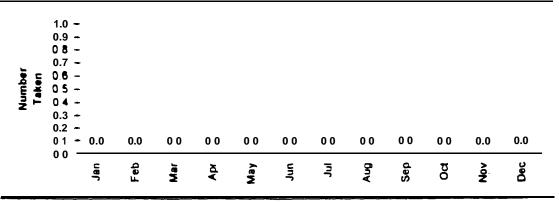
SOURCE: Alaska Department of Fish and Game, Division of Suberstence, Suberstence Study and Monstor System for See Lione and Harbor Seets in Alaska, with assistance from the City of Hydaburg and Haida Corporation, 1994.



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Hydaburg and Haida Corporation, 1994.

TABLE 10. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: HYDABURG, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 14
Surveyed Households 14
Sampling Fraction 100 0%
Sample Household Members 47
Estimated Household Members 470

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households:	Estimated Community Harvest and Two (Expande	ed):
used 35 7%	Total Number Harvested	140
Hunted 35 7%	Total Number Struck● nct Lost	0 0
Harvested 35 7%	Total Number Taken	14.0
Received 0.0%	Number Harvested Per Capita	N/A
Gave Away 26 6%		

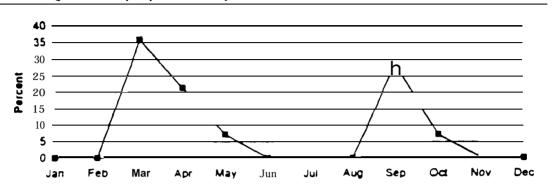
HARBOR SEAL	HARV	EST BY	SEASO	NC								U	Inknown	
	Jan	Feb	Mar	Apr	May	مبد	فد	Aug	Sep	al	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND	AKE BY	SAMPLED	HOUSEH	OLDS (UN	EUPANOE	D)							
Hervest	0	0	5	3	1	0	0	0		1	0	0	0	14
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	5	3	1	0	0	0	4	1	0	0	0	14
ESTIMATED HARVE	ST AND	TAKE BY	COMMUN	TY (E)PA	NDED)									
Hervest	0 0	0 0	5.0	3 0	10	0 0	0 0	0 0	4 0	10	0 0	0.0	0.0	14 (
Struck and Lost	0.0	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0	0.0	0.0
Total Take	0.0	0 0	5.0	3 0	1 0	0 0	0 0	0 0	4 0	1 0	0.0	0.0	0.0	140
ESTIMATED SEASO	MALLY A	DJUSTED	HARVES	T AND TA	KE B Y ∞	MMUNITY	(E)(PANDE	ED)						
Hervest	00	0.0	5.0	3.0	10	00	00	00	4 0	1 0	0.0	0.0		14 (
Struck and Lost	0.0	0.0	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	5.0	3.0	1 0	0 0	0 0	0 0	4 0	1.0	0.0	0.0		14.0
Total Take (%) 0 .	0 %	0.0%	35.7%	21 4%	7.1%	00%	0.0%	0.0%	28.5%	7 1%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	5.0	8.0	0.0	90	90	9 0	13.0	1 4 0	1 4 0	14.0		
Curn. Take (%)	0.08	0.0%	35.7%	57.1%	64 3%	64 3%	64 3%	64 3%	92.9%	100.0% 1	0 0 0 %	100.0%		

HARBOR SEAL HARVEST BY	AGE AND SEX	Report		ε	beramde		
		By Same	Me Percent	By Co	mmunity	Percent	
		(Unexpende	d)	(Es	(bebneq		
Adult	Male	8	57.1	%	8.0	57.1%	
Adult	Female	4	26.6%	4	0	26.6%	
Mull	Unknown	Sex	1	7.1%	1.0	7.1%	
Juvenile	Male	1	7.	1%	1.0	7 1%	
Juvenile	Female	0	0	.0%	0.0	00%	
Juvenile	Unknown	Sex	0	0.0%	0.0	0.0%	
Pup Male	0		00%		00	0.0%	
Pup	Female	0	0.0	1%	0.0	0.0%	
Pup	Unknown	Sex	0	00%	0.0	0.0%	
Male	Unknown	Age	0	0.0%	0.0	0.0%	
Female	Unknown	Age	0	0.0%	0.0	0.0%	
Unknown:	Sex ● nd Age	•	0 0.0%		0.0	0.0%	
Total	14		100.0%	•	14.0	100.0%	

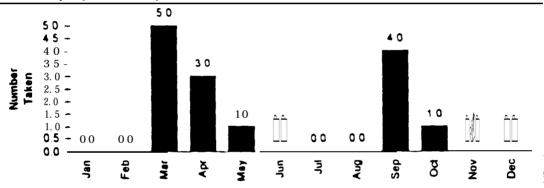
SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for See Lions and Harbor Seels in Alaska, with assistance from the City of Hydaburg and Harda Corporation, 1994.

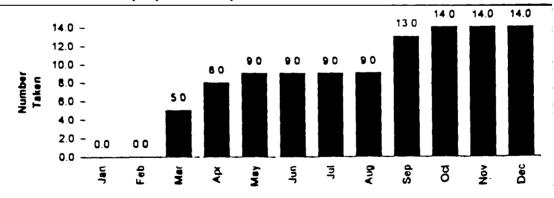
FIGURE 10. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: HYDABURG. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Frah and Game. Division of Subsistence: Subsistence Study and Monitor System for See Lions and Harbor Seers in Alaska, with assistance from the City of Hydaburg and Haida Corporation, 1994.

SAMPLING DESIGN CHAIN REFERRAL

Total Sample Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
339 3

SEA UON HARVEST AND USE INFORMATION

Percent Of Sample Households

Used 0 0% Total Number Harvested 0.0

Humed 0 0% Total Number Struck and Lost 0 0

Harvested 0 0% Total Number Taken 0.0

Received 0 0% Number Harvested Per Capita N/A

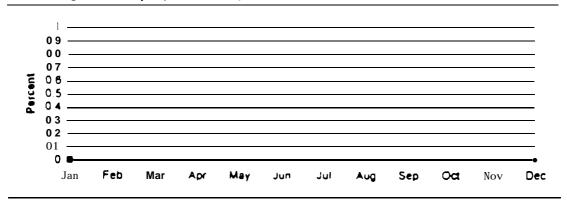
Gave Away 0 0%

SEA LION HAR	PVEST	BY SEA.	SON									L	nknown	
		Fee		400	May	مرد	•	A.g	Sep	Oct	Nov	Dec	Month	fou
REPORTED HAPVI	EST AND	WE BY	ا وعاصلا	-OUSEH	DUDS IUNI	DIPANOE)ı							
Hervest	0	2	2	0	٥	0	0	0	0	0	0	0	0	(
Struck and Loss	0	0	3	0	0	3	3	0	0	0	0	0	0	(
Total Tare	0	3	0	0	0	0	0	0	0	0	0	0	0	(
ESTIMATED HARV	EST MO	* WE 8Y	COMMUNE	TY (EXPA	NOEDI									
Harvest	00	00	00	00	00	00	00	00	00	00	00	00	0.0	00
Struct and Lost	00	00	00	00	00	00	00	00	00	00	00	0.0	0.0	0.0
Total Taxo	00	00	00	00	00	00	00	00	00	00	0.0	0.0	0.0	00
ESTIMATED SEAS	ONALLY !	COUSTEE	HAPVEST	MT OM	Œ BY CO	MAUNITY	(E)CP ANDE	EDI						
Hervest	00	00	00	00	00	00	00	00	00	00	00	0.0		oc
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	0.0		0.0
Total Take	00	00	00	00	00	00	00	00	00	00	0.0	0.0		0.0
Total Take (%)														
Cumulative Take	00	00	00	00	00	00	00	00	00	00	0.0	0.0		
Cum Take (%)	0.0%	0.0%	00%	00%	00%	00%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

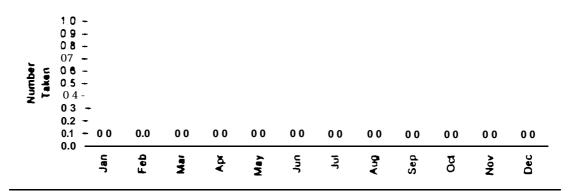
SEA LION I	HARVEST BY ACE ANO SW	Reported		Estimated	
		By Sample	Percent	By Community	Percent
		(Unexpanded)		(Expanded)	
	Adult Male	0		00	_
	Adult Female	0	****	00	
	Adult Unknwm Sex	0	_	00	
	Juvenile Male	0		00	_
	Juvenile Female	0	_	0.0	_
	Juvenile Unknown Sex	0	_	00	_
	Pup Male	0	_	0.0	_
	Pup Female	0	_	0.0	-
	Pup Unknown Sex	0	-	00	_
	Male Unknown Age	0		0.0	
	Female Unknown Age	0		0.0	
	Unknown Sex and Age	0	_	00	_
	Total	0		0.0	-

SOURCE:

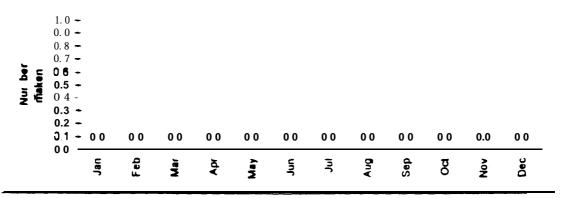
Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for See Lione and Harbor Seess in Alaska: with assistance from the Tinget and Harda Central Council, Seelaska, Auke Tribe Council, and ANB/ANS, 1994.



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Herbor Seats in Alaska, with assistance from the Tilingit and Haida Central Council, Sealaska, Auke Tirbe Council, and ANB/ANS, 1994.

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 101
Surveyed Households 89
Sampling Fraction 88 1 %
Sample Household Members 299
Estimated Household Members 339 3

HARBOR SEAL HARVEST AND USE INFORMATION

Percent or Sample Households
Used 4 0 4 %
Hunted 4 0 4 %
Harvested 1 9 1%
Received 24 7%
Gave Away 15 7%

Estimated Community Harvest and Take (Expanded).

Total Number Harvested 5 9 0

Total Number Struck and Lost 21 6

Total Number Taken 60 6

Number Harvested Per Capita N/A

HARBOR SEA	L HAR	EST BY	' SEAS	ON								Ĺ	nknown	
	Jen.	Feb	Mar	Apr	May	معال	ايو	Aug	Seo	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND	TAKE BY S	AMPLED	HOUSEH	المان وهاد	EXPANDE!	D 1							
Hervest	4		0	1	0	2	0	1	1	11	19	5	0	52
Struck and Lost	0	0	2	0	0	8	0	0	1	5	2	0	1	19
Total Take	4	8	2	1	0	10	0	t	2	16	21	5	1	71
ESTIMATED HARM	EST AND	т м (EY COMM	UNITY (EX	PANDED)								
Hervest	4.5	9.1	00	1.1	0.0	2.3	0 0	† 1	1.1	12.5	216	5 7	0 0	59 0
Struck and Lost	0.0	0.0	23	0 0	00	9 1	0 0	00	1.1	5.7	2.3	0.0	11	21 6
Total Take	4.5	9.1	2.3	11	00	113	0 0	1,	23	18.2	23.8	5.7	11	80.6
ESTIMATED SEASO	DNALLY A	NOUUSTEE	HARVES	T AND TA	KE BY CO	MMUNITY	(E)PANOE	(D)						
Hervest	4.5	9.1	00	1 1	0 0	2 3	0 0	1 1	1 1	1 2 5	21 6	57		59 0
Struck and Lost	0.0	00	24	0 0	0 0	96	0 0	00	1.2	6.0	2 4	0 0		21
Total Take	4.5	9.1	24	11	0 0	119	0 0	11	23	18.5	2 4 0	5.7		80.6
Total Take (%)	5.68	11.3%	3.0%	14%	0.0%	14 n	0.0%	1.4%	2 9	8 22.9	5 29.7%	70%		100%
Cumulative Taire	4.5	13.6	16 0	171	171	29 0	290	30.1	32.5	50.0	7 4 9	80 6		
Cum Take (%)	5.68	16.9%	19.9%	21 3%	21 3%	36 0%	36.0%	3 7 4 %	40.3%	63.2%	93.0%	100.0%		

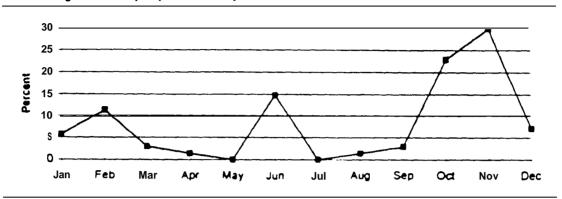
HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expended)	
Adult Male	35	67 3%	39 7	67 3%
Adult Female	4	77%	4.5	7 7%
Adult Unknown Sex	1	19%	11	1 9%
Juvenile Male	0	00%	0 0	00%
Juvenile Female	0	00%	0.0	0.0%
Juvenile Unknown Sex	2	38%	2.3	3.8%
Pup Male	1	1 9%	1,1	1.9%
Pup Female	0	00%	0 0	00%
Pup Unknown Sex	0	00%	0.0	0.0%
Male Unknown Age	0	00%	0.0	0.0%
Female Unknown Age	0	00%	0.0	0.0%
Unknown Sex and Age	9	173%	10.2	17.3%
Total	52	1000%	59.0	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study

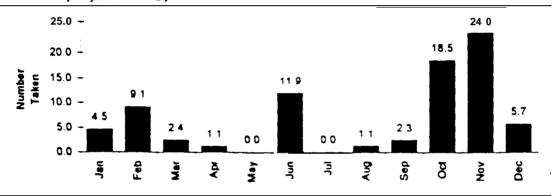
and Monitor System for See Lione and Herbor Seale in Alaska, with assistance from the Tlingit and Heida Central Council, Seelaska, Auke Tribe Council, and ANS/ANS, 1994.

FIGURE 12. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: JUNEAU, 1983

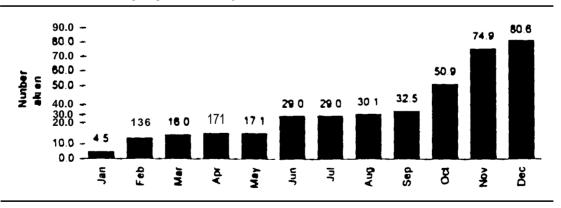
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game. Division of Suberstence: Suberstence Study and Monitor System for Sea Lions and Harbor Seale in Alaska, with assistance from the Tlingit and Harda Central Council, Sealaska, Auke Tribe Council, and ANB/ANS, 1994.

TABLE 13. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: KAKE, 1993

SAMPLING DESIGN. TWO STRATA

Active Other Total Total Native Households 78 90 168 Surveyed Households 72 30 102 Sampling Fraction 92 3% 33 3% 50 7% Sample Household Members 287 76 363 Estimated Household Members 3 1 0 9 228 0 538 9

SEA UON HARVEST AND USE INFORMATION

Percent Of Native Households
Used 0 0 %
Total Number Harvested 0 0 0
Hunted 0 0 %
Total Number Struck and Lost 0 0
Harvested 0 0 %
Total Number Taken 0 0
Received 0 0 %

Gave Away 0 0 %

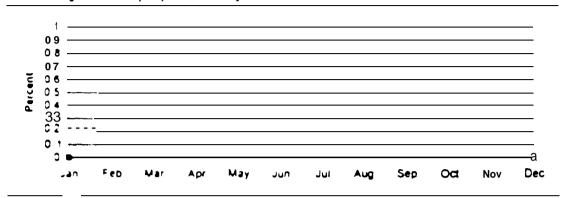
SEA LION HAI	RVEST	BY SEA	SON									Ĺ	INKNOWN	
	معنا	Feb	Mar	Apr	May	مد	2.6	ويه	Sep	Oca	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND 1	AKE BY S	MPLED	HOUSEHO	DLDS IUN	EXPANDE:	ر اد							
Hervest	0	0	0	0	0	Q	0	0	0	0	0	0	0	0
Struck and Loss	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Taire	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVE	EST AND	TAKE BY	COMMUN	TY (EXPA)	NOEDI									
Hervest	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Struck and Lost	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
tow Take	0.0	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0
ESTIMATED SEASO	NALLY A	OJUSTED	HARVEST	I AND TAK	E BY CO	MMUNITY	(EXPANO	EDI						
Hervest	0.0	0.0	0 0	0 0	0 0	0.0	0 0	0 0	0 0	0 0	0.0	0 0		0 0
Struck and Lost	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		0 0
Total Take	0.0	0.0	a 0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		0 0
Total Tales (%)	-	-	_	_	-	-	_	-	_	_	_			
Cumulative Take	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0 0		
Cum. Tales (%)	0.0%	0.0%	00	0.0%	0.0%	00%	00%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY ACE AND SEX	Reported By Sample	Percent	Estimated By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	0		0.0	
Adult Female	0	-	0.0	
Mull unknown Se ≭	0	_	0 0	_
Juvenile Male	0	_	0.0	_
Juvenile Female	0		0.0	_
Juvenile Unknown Sex	0		0.0	_
Pup Maie	0		0.0	
Pup Female	0	_	0.0	
Pup Unknown Sex	0	_	0.0	
Male Unknown Age	0	_	0.0	
Female Unknown Age	0		0.0	
Unknown Sex and Age	0	_	0 0	
Total	0	_	0.0	

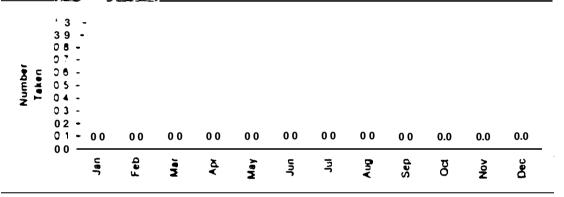
SOURCE:

Alaska Department of Fish and Game, Division of Subarssance Study and Monitor System for See Lions and Harbor Seas in Alaska, with assistance from the Organized Village of Kake and City of Kake, 1994

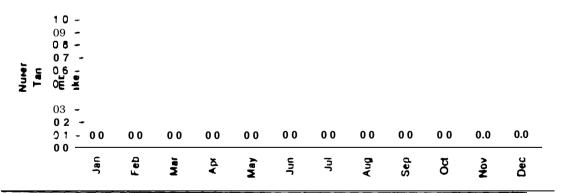
FIGURE 13. SEA LION (Eumetopias jubitus) TAKE ESTIMATES: KAKE. 1993



8. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alasks Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seats in Alaska, with assistance from the Organized Village of Kake and City of Kake, 1994.

TABLE 14. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: KAKE, 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total
Total Native Households 78 90 168
Surveyed Households 7 2 1020
Sampling Fraction 92 3% 33 3% 60 7%
Sample Household Members 287 78 363
Estimated Household Members 3 1 0 9 228 0 538 9

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households.

Used 60 5 %

Hunted 18 1%

Harvested 1 4 2 %

Received 4 5 0 %

Gave Away 12 3%

Estimated Community Harvest and Take (Expanded)

Total Number Harvested 1 0 0 8

Total Number Struck and Lost 152

Total Number Taken 7 1159

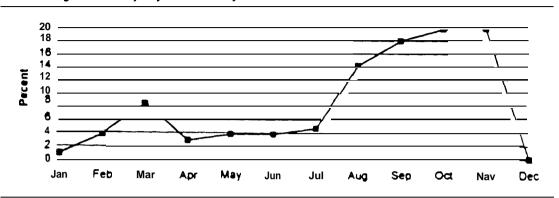
Number Harvested Per Capita 0 19

HARBOR SEAL	. HARV	EST BY	SEASO	ON								Ĺ	Inknown	
	معز	Feb	Mar	Apr	May	ميد	ابلا	A	Seo_	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND 1	AKE BY S	MPLED	HOUSEH	OLDS (UN	EVPANDE	Oi .							
Harvest	1		8	3	3	3	3	12	18	17	20	0	1	a
Struck and Lost	0	0		0	•	1	2	3	1		1	0	0	1
Total Taire	1		9	3	4	4	5	15	19	21	21	0	1	10
ESTIMATED HARVE	EST AND	TAKE BY	COMMUN	TY (EXPA	NOEDI									
Harvest	1 1	4.3	8 7	3 3	3 3	3 3	3 3	130	195	18.4	217	00	11	100
Struck and Lost	0.0	0.0	11	0 0	1 1	1 1	2 2	3 3	1.1	4 3	1 1	0 0	0.0	15.
Total Take	11	4.3	9.8	33	43	4 3	5 4	16.3	20 6	22.8	22.6	00	11	115.
ESTIMATED SEASO	DNALLY A	DJUSTED	HARVES	T AND TA	KE BY CO	MMUNITY	(EXPANOE	(D)						
Harvest	11	4.4	8 8	33	33	3 3	3 3	13 1	19 7	18.6	21 9	0.0		100
Struck and Lost	0.0	0.0	11	00	11	11	2 2	3 3	1 1	43	11	0 0		11.
Total Take	11	4 4	98	3.3	4.4		5.5	16 4	20 S	PO	23.0	00		115.
Total Take (%)	0.9%	3.8%	8.5%	28%	3.8%	3n	47%	14.1%	17 n	198%	19.8%	0.08		1001
Cumulative Take	1.1	5.5	15.3	18 6	23.0	27 3	32 8	49 2	700	92.9	115.9	115.9		
Cum. Take (%)	0.9%	47%	13.2%	16.0%	19.8%	23 6%	28.3%	42	60 4%	80 2%	100 0%	100.0%		

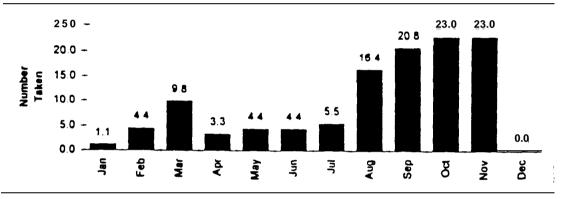
HARBOR SEAL I	HARVEST BY AGE AND SE X	Recorded By Sample (Unexpanded)	Percent	Estimated By Community Percent (Expanded)
	Adult Male	62	66 7%	07.2 66 7%
	Adult Female	8	8 6%	8 7 8.6%
	Adult Unknown Sex	4	4 3%	43 43%
	Juvenile Male	6	6 5%	6 5 6.5%
	Juvenile Female	0	00%	0.0 0 0%
	Juvenile Unknown Sex	3	32%	3.3 3.2%
	Pup Maie	0	00%	0.0 00%
	Pup Female	0	00%	00 0.0%
	Pup Unknown Sex	0	00%	00 0.0%
	Male Unknown Age	2	2.2%	2.2 2.2%
	Female Unknown Age	0	00%	0.0 0.0%
	Unknown Sex and Age	8	8 6%	5 7 8.6%
	Total	93	100.0%	100.8 100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subaistence, Subaistence Study and Montor System for Sea Lions and Herbor Seals in Alaska, with assistance from the Organized Village of Kate and City of Kake, 1994

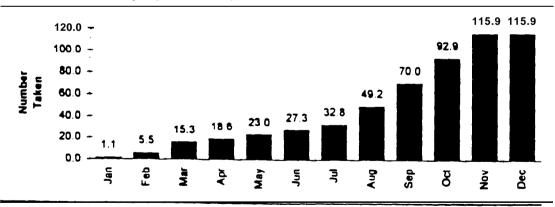
FIGURE 14. HARBOR SEAL (Phw vitulina) TAKE ESTIMATES: KAKE. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fish and Game. Division of Subsistence, Subsistence Study and Monitor System for See Lions and Harbor Seals in Alaska, with assistance from the Organized Village of Kaire and City of Kaire, 1994

TABLE 18. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: KETCHIKAN. 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 19
Surveyed Households 1 3
Sampling Fraction 68 4%
Sample Household Members 12
Estimated Household Members 48 8

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households E - Community Harvest and Take (Expanded):

Used 48.2% Total Number Harvested 42.4

Hunted 23.1% Total Number Struck and Lost 2.9

Harvested 23.1% Total Number Taken 45.3

Received 2.3.1% Number Harvested Per Capita N/A

Gave Away 7.7%

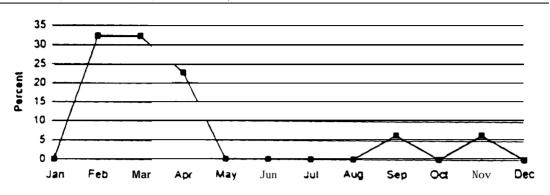
HARBOR SEAL	. HAR	EST BY	' SEASC	ON								L	nknown	
	Jan	Feb	Mar	Apr	May	ميد	مد	Aug	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND	TAKE BY S	SAMPLED	HOUSEH	OLDS (UN	EDPANOE.	D)							
Harvest	0	10	10	5	0	0	0	0	2	0	2	0	0	29
Struck and Loss	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Total Take	0	10	10	7	0	0	0	0	2	0	2	0	0	31
ESTIMATED HARVE	ST AND	TAKE BY	COMMUN	TY (EXP	WOED)									
Hervest	0.0	14.6	14.6	73	00	00	00	00	29	0.0	2. 9	0.0	0.0	42 4
Struck and Loss	0.0	0.0	00	29	00	00	00	00	00	0.0	0.0	0.0	0.0	2. 9
Total Take	0.0	14.6	146	10.2	0 0	0 0	0 0	0 0	2.0	0.0	2s	0.0	0.0	45.3
ESTIMATED SEASO	NALLY A	VOJUSTED	HARVES	T AND TA	KE BY CO	MMUNITY	(EXPANOE	ED1						
Harvest	0.0	14.0	146	73	00	0.0	00	0.0	2.9	0.0	2.9	0.0		42 4
Struck and Lost	0.0	0.0	0.0	2.9	00	00	00	0.0	00	0.0	0.0	0.0		29
Total Take	0.0	14.6	146	10.2	00	0.0	00	00	29	0.0	2.9	0.0		45. 3
Total Taire (%)	0.0%	32.3%	32.3%	22 6%	a. 08	008	0.0%	0.0%	6.5%	0.0%	6. 58	0.08		1009
Cumulative Take	0.0	146	29.2	39 5	39 5	39 5	39 5	30.5	4 2 4	4 2 4	462	45.3		
Cum Taire (%)	0.0%	32.3%	br. 58	87 1%	6718	871%	87 1%	87 1%	93.5%	W. 58	100.0%	10008		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community Percen	n
	(Unexpended)		(Expanded)	
Adult Male	1 3	44.8%	19.0 u 8%	6
Mull Female	1 3	44 8%	190 44.89	%
Adult Unknown Sex	0	00%	0.0 0.0%	, 0
Juvenile Male	2	6.9%	2.9 6.9	%
Juvenile Female	1	3 4%	1.5 34%	, 0
Juvenile Unknown Sex	0	0.0%	0.0 0.0%	, D
Pup Male	0	00%	0.0 0.0%	, 0
Pup Female	0	00%	0.0 0.0%	, 0
Pup Unknown Sex	0	00%	0.0 0.0%	, 0
Male Unknown Age	0	00%	0.0 0.0%	, 0
Female Unknown Age	0	0.0%	0.0 0.0%	, 0
Unknown Sex and Age	Ō	0.0%	0.0 0.0%	6
Total	29	00.0%	42.4 100.0%	, 0

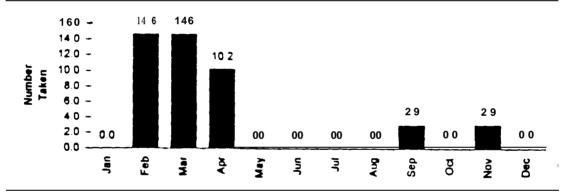
Alaska Department of Fish and Game. Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ketchikan IRA Council and Ketchikan Indian Corporation, 1994.

SOURCE

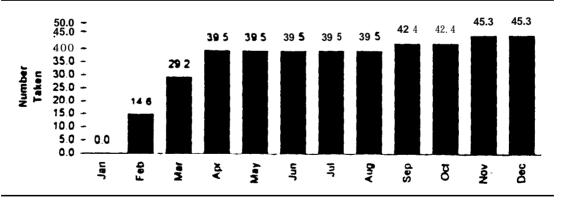
FIGURE 18, HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: KETCHIKAN. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game. Division of Subsistence, Subsistence Saudy and Monitor System for See Lune and Harbor Seats in Alaska, with assistance from the Ketchikan IRA Council and Ketchikan Iridan Corporation, 1994.

TABLE 17. SEA LION (Eumetopus jubetus) HARVEST AND TAKE ESTIMATES: KUWOCK. 1993

SAMPLING DESIGN CHAIN REFERRAL

Total Sample Households 28
Surveyed Households 19
Sampling Fraction 67 9%
Sample Household Members 67
Estimated Household Members 98 7

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households

Used 0.0%

Humled 0.0%

Total Number Harvested 0.0

Hervested 0.0%

Total Number Struck and Lost 0.0

Total Number Taken 0.0

Received 0.0%

Number Harvested Per Capita N/A

Gave Away 0.0%

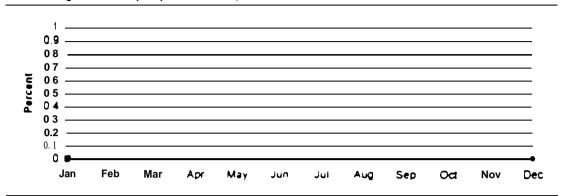
SEA UON HAR	VEST &	Y SEA	SON									Ų	Inknown	
		F-90	Name of the last	Aor	May	مد	برو	Ava	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVE	5" 440 "	WE BY S	C3L-MA	-OUSE+(الان وحاد	DOMNOE!))							
Harved	0	0	0	0	0	3	0	0	0	0	0	0	0	0
Struct and Loss	0	9	0	0	0	3	0	0	0	0	0	0	0	0
Total Tana	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HAPVE	ES" ANC	AKE BY	COMMUN	MY NEODA	NOEDI									
Hervest	00	00	00	00	00	00	00	00	00	00	00	0.0	00	0.0
Structs and Loss	00	00	00	00	00	00	00	00	00	00	00	0.0	00	0.0
Total Take	00	00	00	00	00	00	00	00	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASO	MALLY A	CLUSTE	HANES'	' AND TA	Œ EY CO	MMUNITY	EXPANDE	D)						
Harvest	00	00	00	00	00	00	00	00	00	00	0.0	0.0		00
Struck and Loss	00	00	00	00	00	00	00	00	00	0.0	00	0.0		0.0
Total Take	00	00	00	00	00	00	00	00	00	0.0	0.0	0.0		0.0
Total Take (%)	-	-	_	-	_	_	-	_	_	_	-	_		
Cumulative Taxe	00	0.0	00	00	00	00	00	00	00	00	0.0	0.0		
Cum Take (%)	0.0%	0.0%	00%	00%	800	800	00%	008	0.0%	00%	0.0%	0.0%		

SEA LION HARV	EST BY AGE AND SEX	Reported		Estimated		
		By Semple	Percent	By Community	Percent	
		(Unexpended)		c - 1		
	Adult Male	0	_	00	_	
	Adult Female	0		0 0		
	Adult Unknown Sex	0		0 0	-	
	Juvenile Male	0		0 0		
	Juvenile Female	0	-	0.0	***	
	Juvenile Unknown Sex	0	_	0.0	-	
	Pup Male	0	_	0.0	-	
	Pup Female	0	_	0 0	_	
	Pup Unknown Sex	0	_	0 0	_	
	Male Unknown Age	0	-	0 0	-	
	Female Unknown Age	0	_	0.0	_	
	Unknown Sex and Age	0	_	00	~	
	Total	0		0.0	-	

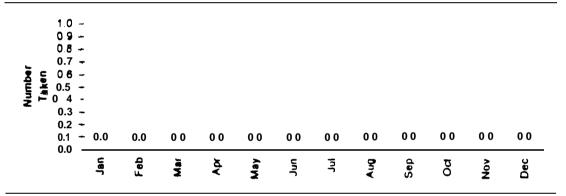
SOURCE:

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Klawook Cooperative Association and Klawook Heeniya Corporation, 1994.

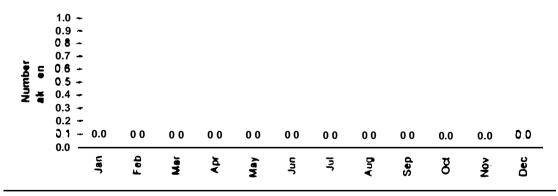
FIGURE 17. SEA LION (Eumetopies jubetus) TAKE ESTIMATES: KLAWOCK. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fish and Game. Division of Subassisnos. Subassisnos Study and Monitor System for See Lions and Harbor Seats in Alaska, with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 1994.

TABLE 18. HARBOR SEAL (Phw vituline) HARVEST AND TAKE ESTIMATES: KLAWOCK, 1993

SAMPLING DESIGN: CHAIN REFERRAL

total Sample Households 26
Surveyed Households 19
Sampling Fraction 67 9%
Sample Household Members 67
Estimated Household Members 98 7

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households:	Estimated Community Harvest and Take (Expende	ed)
U sed 31.6%	Total Number Harvested	39 a
Hunted 26 3%	Total Number Struck and Lost _	0 0
Harvested 26 3%	total Number Taken	39 6
Received 10 5%	Number Harvested Per Capita	N/A
Gave Awry 21 1%		

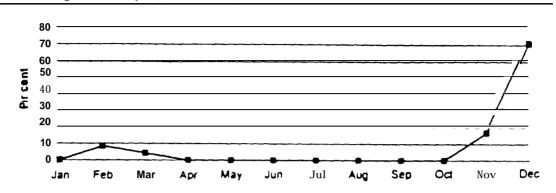
HARBOR SEAL	. HARV	EST BY	' SEASC	ON								U	nknown	
	معل	Feb	Mar	Apr	May	ميد	ابط	Aug	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND T	AKE BY S	AMPLED	HOUSEH	OLDS IUN	EDPANDE!	D)							
Harvest	0	2	1	0	0	0	0	0	0	0	4	17	3	27
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Total Take	0	2	1	0	0	0	0	0	0	0	4	17	3	2
ESTIMATED HARVE	EST AND	TAKE BY	COMMUN	ITY (EXPA	NDED)									
Harvest	0.0	2.9	1.5	0 0	0 0	0 0	0 0	0 0	0 0	0 0	5.9	25.1	4.4	39
Struck and Lost	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0
Total Take	0.0	2.9	1 5	0 0	0 0	0 0	0 0	0 0	0 0	0 0	5.9	25 1	4.4	39.8
ESTIMATED SEASO	NALLY A	CJUSTE	HARVES	T AND TA	KE BY CO	MMUNITY	(EXPANDE	(D)						
Harvest	0.0	3.3	17	0 0	0 0	0 0	0 0	0 0	0 0	0 0	as	a 2		39
Struck and Lost	0 0	0.0	0 0	0 0	0.0	0 0	0 0	0 0	0 0	0 0	00	0.0		0.6
Total Take	0 0	3.3	17	0 0	0.0	0 0	0 0	0 0	0 0	0.0	66	28.2		39.
Total Take (%)	0.08	6.38	4.2%	00%	0.0%	0.0%	0.0%	0.0%	0 0 8	0 0 8	c a n	70.8%		1001
Cumulative Take	0-0	3.3	5 0	5 0	5 0	5 0	S 0	50	5 0	5 0	11 🔓	39.8		
Cum. Take (%)	0.08	6.38	12.5%	12.5%	12 5%	125%	12 5%	125%	12.5%	12.5%	29.2%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Esternated	
	By Samore	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	24	88 9%	35 4	88.9%
Mutt Female	0	00%	0.0	0.0%
Adult Unknown Sex	0	00%	0.0	0.0%
Juvenile Male	3	11 1%	4.4	11.1%
Juvenile Fernale	0	00%	0.0	0.0%
Juvenile Unknown Sax	0	00%	0.0	0.0%
Pup Male	0	00%	0.0	0.0%
Pup Female	0	00%	0.0	0.0%
Pup Unknown Sex	0	00%	0.0	0.0%
Male Unknown Age	0	00%	0.0	0.0%
Female Unknown Age	0	00%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	27	100.0%	39.8	100.0%

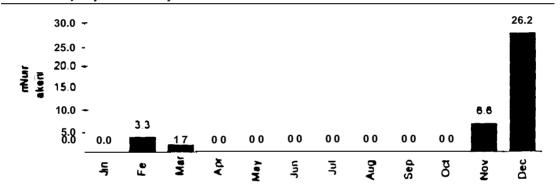
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Klawcok Cooperative Association and Klawcok Heavys Corporation, 1994.

SOURCE:

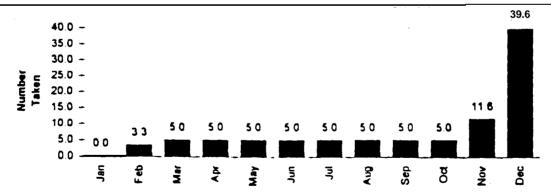
FIGURE 18. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: KLAWOCK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fian and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Klawock Cooperative Association and Klawock Heeniya Corporation, 1994.

TABLE 19. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: KLUKWAN, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households
Surveyed Households
Sampling Fraction 81 8%
Sample Household Members 46
Estimated Household Members 56 2

SEA LION HARVEST AND USE INFORMATION

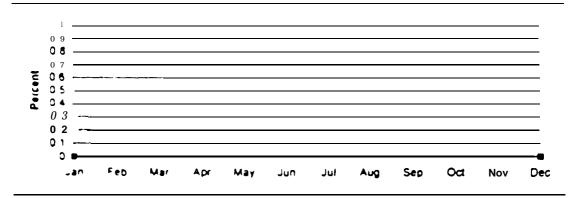
Percent Of Sample Households	Estimated Community Harvest ii 0 Take (Expanded	1)
Used 00%	Total Number Harvested 0	0
Hunted 00%	Total Number Struck and Lost 0	0
Hervested 00%	Total Number Taken 0	0
Received 0 0 %	Number Harvested Per Capita W.	Α
Gsvt Awry 00%		

SEA LION H A R	V E S T B	Y SEAS	SON									U	inknown	
	Jac .	Feb	Mar	Apr	May	مىد	نرز	440	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND TA	KE BY S	MPLED	+OUSEH	DLDS (UN	EXPANOE:	וכ	-						
Harvest	0	0	0	0	0	3	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	C	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVE	EST AND T	KE BY C	OMMUNI	TY (EXPA	NOEDI									
Harvest	00	00	0 0	0 0	0 0	0 0	0 0	00	00	00	00	0.0	0 0	0 0
Struck and Loss	00	0.0	0 0	0 0	0 0	0 0	0 0	0 0	00	00	00	0.0	0 0	0 0
Total Take	00	00	0 0	0 0	0 0	0 0	0 0	00	00	00	0.0	0.0	0.0	0 0
ESTIMATED SEASO	DNALLY AD	JUSTED	HARVEST	AND TA	KE BY CO	MMUNITY	EXPANDE	D)						
Hervest	00	0.0	0 0	0 0	0 0	0 0	0 0	00	00	00	0.0	0 0		0 0
Struck and Lost	0.0	00	0 0	0 0	0 0	0 0	0 0	00	00	00	00	0.0		0 0
Total Take	00	0.0	0 0	0 0	0 0	0 0	0 0	00	00	00	00	0 0		0.0
Total Take (%)	_	_		_		-	-	-	_	_	-	-		
Cumulative Take	0.0	0.0	0 0	0 0	0 0	0 0	0 0	00	00	00	0.0	0 0		
Cum Take (%)	0.08	0.0%	0.0%	0.0%	00%	00%	0.0%	0.0%	0.0%	0.0%	008	0 0 8		

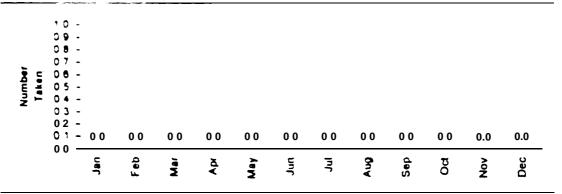
SEA LION HARVEST BY AGE AND SEX	Recorded		Estimated	
	By Samore	Percent	By Community	Percent
	(Unexpanded)		(Expended)	
Mull Maie	0	-	0 0	_
Adult Female	С	_	0 0	-
Adult Unknown Sex	0		0 0	_
Juvenile Male	0	_	0 0	_
Juvenile Female	0		0.0	
Juvenile Unknown Sex	0	_	0 0	_
Pup Male	0	_	0 0	_
Pup Female	0	_	0.0	_
Pup Unknown Sex	0	_	0.0	_
Male Unknown Age	0	_	0.0	_
Female Unknown Age	0	_	0.0	
Unknown Sex ● nd Age	0		0.0	
Tat al	0		0.0	_

SOURCE: AL

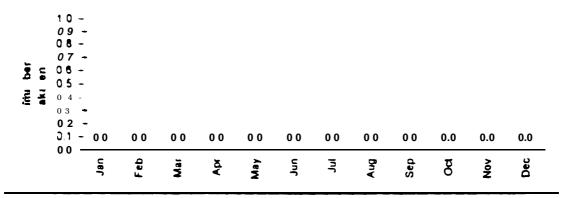
Alaska Department of Fish and Came. Division of Subsistance, Subsistance Study and Montor System for See Lions and Harbor Seas in Alaska, with assistance from the Children Vitage, 1994.



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Geme. Division of Subsistence, Subsistence Study and Monitor System for See Lions and Harbor Seas in Alaska, with assistance from the Children Village, 1994.

TABLE 20. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: KLUKWAN. 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households
Surveyed Households
Sampling Fraction 81 8%
Sample Household Members
Estimated Household Members 56 2

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households:

Used 11.1%

Hunted 22.2%

Harvested 1 1 1 %

Received 1 1 1 %

Gave Away 11 1%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 1.2

Total Number Struck and Lost 0.0

Total Number Taken 1.2

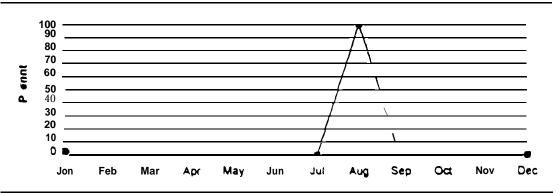
Number Harvested Per Capita N/A

HARBOR SEAL	L HAR	EST BY	SEASC	N								L	Inknown	
	Jen	Feb	Mar	Apr	Mey	مبد	ابلا	Aug	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND	TAKE BY S	AMPLED I	+OUSE+K	DLOS (UN	EXPANDED))							
Harvest	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	1	0	0	0	0	0	1
ESTIMATED HARV	EST MD	TAKE BY C	OMMUNI	TY (EXPA	NDED)									
Harvest	0.0	0.0	00	00	00	00	00	1 2	0 0	0 0	0 0	0.0	0.0	1.2
Struck and Lost	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0 0	0.0
Total Take	0.0	0.0	0 0	0 0	0 0	0 0	0 0	1 2	0 0	0 0	0 0	0.0	0 0	1.2
ESTIMATED SEAS	ONALLY	ADJUSTED	HARVES	T MD TAK	E BY CO	MMUNITY	EXPAND	ED)						
Harvest	0.0	0.0	00	0.0	00	00	00	1.2	0 0	0 0	0.0	0.0		1 2
Struck and Lost	0.0	0 0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0 0	0 0	0 0	1.2	0 0	0 0	0.0	0.0		1 2
Total Take (%)	0.08	0.08	0.0%	000	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	6 0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0 0	0 0	0.0	1 2	1 2	1.2	1.2	1.2		
Cum. Take (%)	0.08	0.0%	0.0%	008	00%	0.0%	0.0%	100 0%	100.0%	100.0%	100.0%	100.0%		

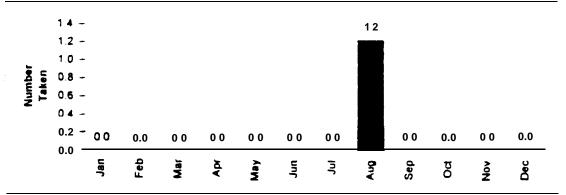
HARBOR SEAL HARVEST BY AGE ANO SEX	Reported		Estimated	
	By Semple	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	0	00%	0.0	0.0%
Mutt Female	0	00%	0 0	00%
Adult Unknown Sex	1 1	000%	1.2	100.0%
Juvenib Male	0	00%	0.	0 0.0%
Juvenib Female	0	00%	0.0	0.0%
Juvenib Unknown Sex	0	00%	0.0	00%
Pup Male	0	00%	0.0	0.0%
Pup Female	0	00%	0.0	0.0%
Pup Unknown Sex	0	00%	0.0	0.0%
Male Unknown Age	0	00%	0 0	0.0%
Female Unknown Age	0	00%	0.0	0.0%
Unknown Sex and Age	0	0.0%		0.0%
Total	1	100.0%	1.2	100.0%

SOURCE:

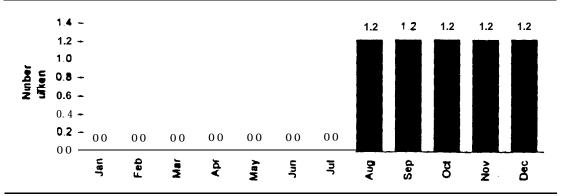
Alaska Department of Fish and Game. Division of Subaistance, Subaistance Study and Monitor System for See Lions and Harbor Seels in Alaska, with assistance from the Children Village, 1994



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monstor System for See Lions and Harbor Seals in Alaska, with assistance from the Children Hilage, 1994

TABLE 21. SEA LION (Eumetopies jubatus) HARVEST AND TAKE ESTIMATES: PELICAN, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households
Surveyed Households
Sampling Fraction 93 8%
Sample Household Members 42
Estimated Household Members U 8

SEA LION HARVEST AND USE INFORMATION

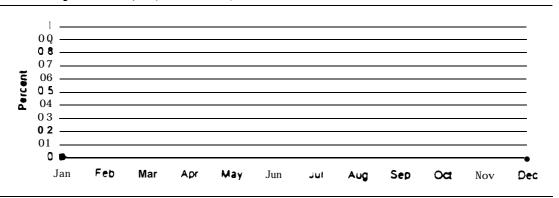
Percent Of Sample Households Estimated Community Harvest and Take (Expanded) Used 00% Total Number Harvested Hunted 0 0% Total Number Struck and Lost 00 Harvested 0 on Total Number Taken 0.0 Received 0.0% Number Harvested Per Capital N/A Gave Away 00%

SEA LION HAI	RVEST E	Y SEA	SON									U	nknown	
	Jan	Feb	Mar	Apr	Nay	Jun	ابد	No	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	EST AND T	AKE BY S	AMPLED I	+OUSEH	אטי צפטכ	EUPANDEC)ı							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Struck and Loss	0	٥	0	0	0	а	3	0	0	0	0	0	0	(
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	(
ESTIMATED HARVI	EST AND T	AKE BY C	OMMUN	TY (EXPA	NOEDI									
Hervest	00	00	00	00	00	00	00	00	0.0	00	00	0.0	00	00
Struck and Lost	0.0	00	00	00	00	00	00	00	00	00	00	00	00	0.0
Total Take	0.0	00	00	00	00	00	00	00	00	00	0.0	0.0	0.0	00
ESTIMATED SEASO	ONALLY A	JUSTED	HARVES!	AND TA	KE BY CO	MMUNITY	(EXPANDE	D)						
Harvest	0.0	0.0	0.0	00	00	00	00	00	00	00	0.0	00		00
Struck and Loss	00	0.0	00	00	00	00	00	00	00	00	0.0	0.0		00
Total Take	0.0	0.0	00	00	00	00	00	00	00	0.0	0.0	00		0.0
Total Take (%)	_	-	-	-	_	_	_	-	-	_		_		
Cumulative Take	0.0	0.0	0.0	00	00	00	00	00	00	0.0	0.0	0.0		
Curn. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	00%	008	0.0%	0.08		

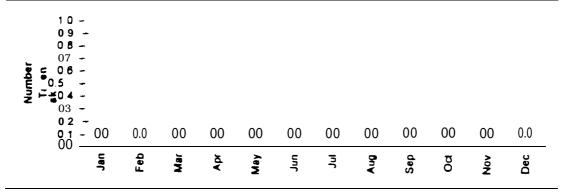
SEA LION HARVEST BY AGE AND S&X	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	0		0.0	_
Adult Female	0		0 0	_
Adult Unknown Sex	0		0 0	
Juvenile Male	0		0 0	
Juvenile Female	0		0.0	
Juvenile Unknown Sex	0	_	0 0	_
Pup Male	0		0.0	_
Pup Female	0		0.0	
Pup Unknown Sex	0		0.0	_
Male Unknown Age	0		0.0	_
Female Unknown Age	0	_	0.0	-
Unknown Sex and Age	0		0.0	
Total	0	_	0.0	

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for See Lions and Herbor Seels in Alaska, with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 1994.

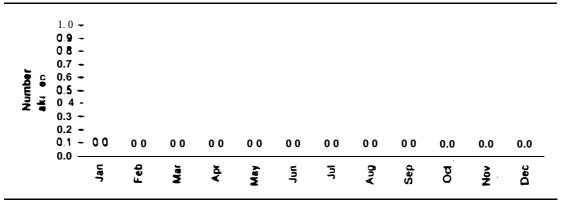
FIGURE 21. SEA LION (Eumetopies jubatus) TAKE ESTIMATES: PELICAN, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game. Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 1994.

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 16
Surveyed Households 15
Sampling Fraction 93 8%
Sample Household Members 42
Estimated Household Members U 8

HARBOR SEAL HARVESTAND USE INFORMATION

Percent Of Sample Households:

Used 53 3%

Hunted 26 7%

Harvested 26 7%

Received 26 7 %

Gave Awry 13 3%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 5 3

Total Number Struck and Lost 1 1

Total Number Taken 6 4

Number Harvested Per Capita N/A

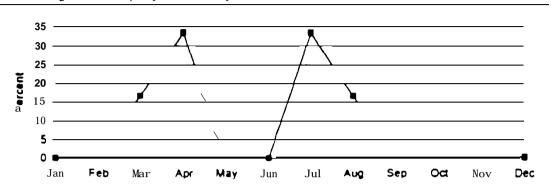
HARBOR SEAL	. HARV	EST BY	SEAS	ON									U	inknown	
	مجار	Feb	Mer	Apr	May	مد	10.0	Aug	Se	ю ()cr	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND T	AKE BY S	AMPLED	HOUSEH	OLDS (UN	EXPANCE	0)								
Harvest	0	0	1	•	0	0	2	1		0	0	0	0	0	9
Struck and Loss	0	0	0	1	0	0	0	0		0	0	0	0	0	•
Total Take	0	0	- 1	2	0	0	2	1		0	0	0	0	0	(
ESTIMATED HARVE	57 M D	TAKE BY	COMMU	INITY (EX	PANDEDI										
Harvest	0.0	0.0	11	11	00	00	2 1	*	1	00	0 0	0.0	0 0	0 0	5 :
Struck and Lost	0.0	0 0	0 0	11	00	00	0 0	00		00	0.0	0.0	0 0	0 0	1
Total Take	0.0	0.0	11	2.1	00	00	2 1	7	1	00	0.0	0 0	0.0	0 0	6
ESTIMATED SEASO	NALLY A	DJUSTES	HARVES	T AND TA	KE BY CO	MMUNITY	DOPAND	ED)							
Harvest	0.0	0.0	11	1.1	00	00	2 1	1	1	00	0.0	0.0	0.0		5 3
Struck and Lost	0.0	0.0	0.0	1 1	00	00	0 0	00		00	0 0	0.0	0.0		ΙI
Total Take	0.0	0.0	11	2.1	00	00	2 1	II		00	0.0	0.0	0.0		6.4
Total Take (%)	0.0%	0.0%	16.7%	33.3%	0.0%	0.0%	33.3%	16.7%	0.0	% 0.	03	0.0%	0.08		1001
Cumulative Take	0.0	0.0	1.1	3 2	32	12	5.3	8.4	6	4	B.4	6.4	8.4		
Cum. Take (%)	0.0%	0.0%	16.7%	no8	50.0%	50 0%	83.3%	100 0%	100.0	% 100.	0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Samoie	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	5	1000%	5.3	100.0%
Adult Female	0	00%	0.0	0.0%
Adult Unknown Sex	0	0 0%	0.0	0.0%
Juvenile Male	0	00%	0.0	0.0%
Juvenile Female	0	00%	0.0	0.0%
Juvenile Unknown Sex	0	00%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0 0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	00%	0.0	0.0%
Female Unknown Age	0	00%	0.0	0.0%
Unknown Sex ● na Age	0	0.0%	0.	0 0.0%
Total	5	100.0%	5.3	109.0%

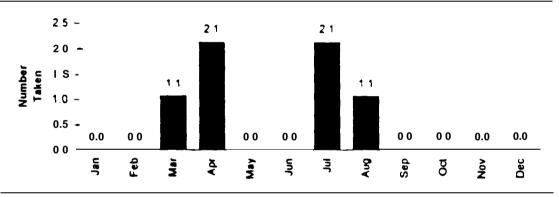
SOURCE:

Alaska Department of Fish and Game. Division of Subsistence, Subsistence Study and Monitor System for See Lions and Harbor Seels in Alaska, with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 1994.

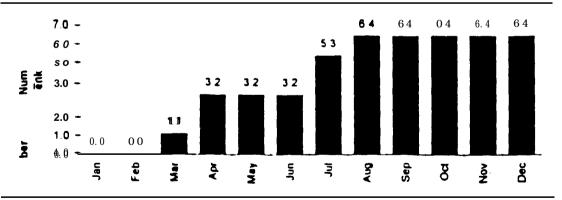
FIGURE 22. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: PELICAN, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monror System for See Lions and Harbor Seats in Alaska, with assistance from the City of Pelican. Tingit and Haida Indians of Pelican Community Council. 1994.

TABLE 23. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: PETERSBURG, 1993

SAMPLING DESIGN CHAIN REFERRAL

Total Sample Households 18
Surveyed Households 8
Sampling Fraction 44.4%
Sample Household Members 22
Estimated Household Members 49.5

SEA UON HARVEST AND USE INFORMATION

Percent Of Sample Households

Used 0.0%

Total Number Harvested 0.0

Humed 0.0%

Total Number Struck and Lost 0.0

Harvested 0.0%

Total Number Taken 0.0

Received 0.0%

Number Harvested Per Capita NVA

Gave Away 0.0%

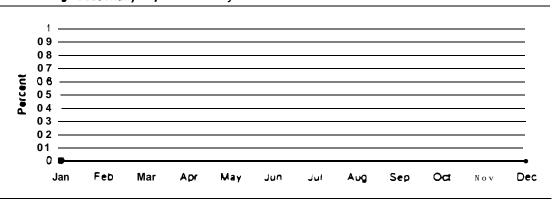
SEA LION HAR	VEST	Y SEA	SON									L	Inknown	
		£ 400	بهد	4or	May	مرو	مد	٨٠٥	Seo	Oct	Nov	Dec		Total
REPORTED HANGE	ST MC	WEBT S	ويرمس	-OLSEHO	COS IUNE	DVP 4NOES)							
Hervest	0	0	3	0	0	0	0	0	0	0	0	0	0	0
Service and Loss	0	a	0	0	C	0	э	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARM	EST AND	TAKE BY	COMMUNE	TOPA	NOEDI									
Hervest	00	00	00	00	00	00	CO	00	00	00	0.0	00	00	00
Struct and Loss	00	00	0.0	00	00	00	00	00	00	00	00	0.0	0 0	0-0
Total Tare	00	00	00	00	00	00	00	00	00	00	00	0.0	0.0	0.0
ESTIMATED SEASO	ONALLY A	OJUSTED	HARVES!	AND TAK	Œ 8Y CO4	***UNITY	EXPANOE	וס						
Harvest	00	00	00	00	00	00	00	00	00	00	00	00		00
Struck and Loss	00	00	00	00	00	00	00	00	00	00	00	00		00
Total Take	00	00	00	00	00	00	00	00	00	00	0.0	0.0		0.0
Tow Yake (%)														
Cumulative Taire	00	00	00	00	00	00	00	00	00	00	0.0	0.0		
Cum Take (%)	003	00	00	00%	00	00	00	00%	00	003	0.0%	0.0%		

SEA UON HARVEST BY AGE AND SEX	Recorded		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	-	00	
Adult Female	0	_	00	_
Adult Unknown Sax	0	_	00	
Juvenile Male	0	_	00	_
Jwentk Female	0	-	00	-
Juvenile Unknown Sex	0		0 0	-
Pup Male	0	_	00	
Pup Female	0		00	_
			0.0	
MalelUnknownStage	0	-	0 0	
Female Unknown Age	0	_	00	
Unknown Sex rna Age	0	_	00	_
Total	0		0.0	

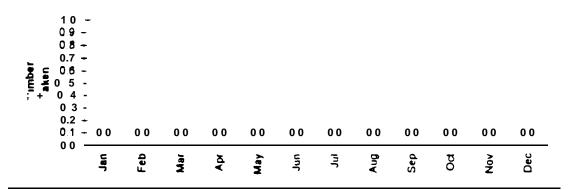
SOURCE:

Alasks Department of Fish and Game. Division of Subarssence: Subarssence Study and Monitor System for See Lions and Harbor Sears in Alaska, with assistance from the Petersburg Indian Association. 1994.

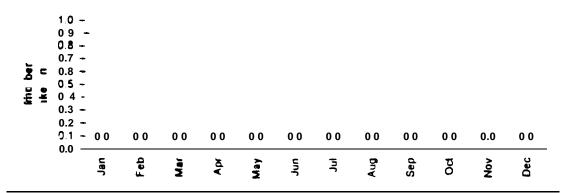
FIGURE 23. SEA LJON (Eumetopias jubatus) TAKE ESTIMATES: PETERSBURG, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game. Division of Subaistence. Subaistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Petersburg Indian Association. 1994.

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households
Surveyed Households
Sampling Fraction U 4%
Sample Household Members 22
Estimated Household Members 49 5

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households	Estimated Community Harvest and Take (Expande	ed)
used 500%	Total Number Harvested	4 5
Humted 25 0%	Total Number Struck and Lost _	4 5
Harvested 12 5%	Total Number Taken	9 0
Received 50 0%	Number Harvested Per Capita	N/A
Gave Away 12 5%		

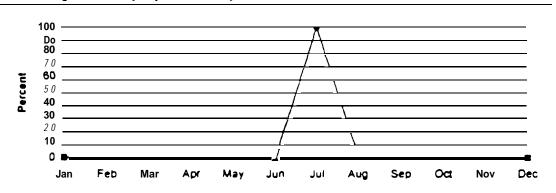
HARBOR SEAL		, _,	0_700									U	UKUOWI	
	معز	Feb	Mar	Apr	May	مىد	ايخ	Aug	Seo	O ct	Nov	Dec	Month	[†] ota
REPORTED HARVE	ST AND T	AKE BY S	AMPLED H	OUSEHO!	LDS (UNE	XPANDE	D)							
Harvest	0	0	. 0	0	0	0	2	0	٥	0	0	0	0	2
Struck and Lost	0	0	0	0	0	0	2	0	0	0	0	0	0	2
Total Take	0	0	0	0	0	0		0	0	0	0	0	0	
ESTIMATED HARVE	ST AND	TAKEBYC	OMMUNIT	Y (EXPAN	(DED)									
Hervest	0.0	0.0	00	00	00	00	45	00	00	00	00	00	00	4.5
Struck and Lost	0.0	0.0	00	00	00	00	45	00	00	00	0.0	00	00	45
Total Take	0.0	0.0	00	00	00	00	90	00	00	00	00	0.0	00	SO
ESTIMATED SEAS	NALLY A	DJUSTED	HARVEST	AND TAK	E BY COM	MUNITY	(EXPANDE	EDI						
Harvest	0.0	0.0	00	00	00	00	4 5	00	00	00	0.0	0.0		45
Struck and Lost	0.0	0.0	00	00	00	00	4 5	00	00	00	0.0	00		45
Total Take	0.0	0.0	00	0.0	00	00	S 0	00	00	00	00	00		SC
Total Take (%)	0.0%	0.0%	0.0%	00%	0.0%	OA	100 0%	00	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	00	00	00	00	S 0	S 0	S 0	90	so	so		
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100 0%	100.0%	100 0%	100 0%	100 0%	100 0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Recorded		Estorn	eted	
	By Sample	Percent	k	m	-
	(Unexpanded)		-	1	
Adult Male	0	00%		00	0.0%
Adult Female	0	00%		00	00%
Adult Unknown Sex	2	1000%		45	1000%
Juvenile Male	0	00%		00	00%
Juvenile Female	0	00%		00	00%
Juvenile Unknown Sex	0	00%		0.0	0 0%
Pup Male	0	00%		00	00%
Pup Female	0	0 0%		00	0.0%
Pup Unknown Sex	0	00%		00	0.0%
Mab Unknown Age	0	00%		0.0	0.0%
Female Unknown Age	0	00%		0.0	0.0%
Unknown Sax and Age	0	0.0%		00	0.0%
Total	2	100.0%		4.5	100.0%

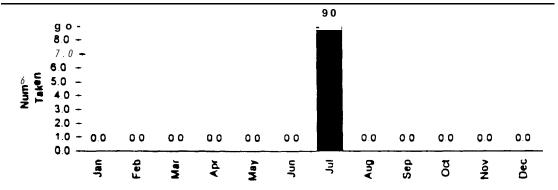
Alaska Department of Fish and Game. Division of Subarstence: Subarstence Study and Monitor System for Sea Lione and Herbor Seals in Alaska, with assistance from the Petersburg Indian Association, 1994.

SOURCE

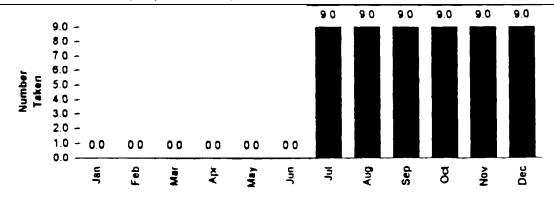
FIGURE 24. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: PETERSBURG, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alasks Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for See Lions and Harbor Sears in Alaska, with assistance from the Petersburg Indian Association. 1994.

TABLE 25. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: SAXMAN, 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total
Total Native Households 10 51 61
Surveyed Households 9 29 38
Sampling Fraction 90 0% 56 9% 62 3%
Sample Household Members 51 93 144
Estimated Household Members 56 7 1 8 3 8 220 2

Ε

SEA LION HARVEST AND USE INFORMATION

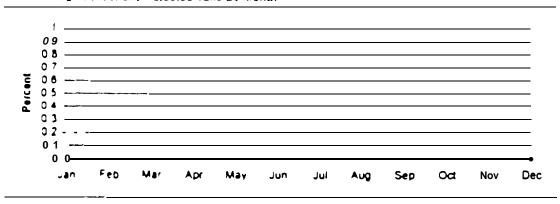
Percent o f Native Households
Used 0 0%
Humed 0 0 %
Harvesied 0 0 %
Received 0 0 %
Gave Away 0 0%

Community Harvest and Take (Expanded)
Total Number Harvested 0 0 0
Total Number Struck and Lost 0 0
Total Number Taken 0 0
Number Harvested Per Capita 0 00

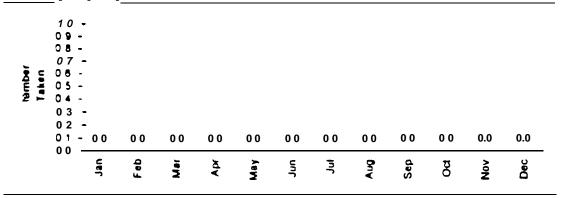
SEA LION HAR	VEST	BY SEA	SON									U	himown	
	Jan	Feb	Mar	Apr	May	مد		4-9	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND T	AKEBY	SAMPLE	HOUSE	OLDS (UP	NEOPANO!	D)							
Hervest	0	0	0	0	0	0	3	3	0	0	0	0	0	0
Struck and Loss	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED - S T	L WD.	TAKE BY	COMMUN	ATY (EXP	NOED)									
Hervest	00	00	00	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0
Struck and Lost	0 0	0 0	0 0	00	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0
Total Take	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	00	00
ESTIMATED SEASO	NALLY A	WUSTE	HARVES!	ANO TAI	(E BY CO	MMUNITY	(EXPANDI	E.D1						
Hervest	0 0	0.0	00	00	00	0 0	0 0	00	00	00	00	00		0 0
Struck and Lost	00	00	00	00	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		0.0
Total Take	0.0	00	00	00	00	0 0	0 0	00	00	00	00	00		0.0
Total Take (%)	-	_	_	-	_	_	_		-	_	_	_		
Cumulative Take	0.0	00	00	00	00	0 0	0 0	0 0	0 0	0 0	0.0	0 0		
Curn. Take (%)	0.0%	0.0%	0.0%	00%	0.0%	0.0%	0.0%	0.0%	00	00%	0.0%	0.0%		

EA LION HARVEST BY AGE ANO SEX	Pecorted By Sample (Unexpended)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	-	00	
Adult Female	0	_	00	
Adult Unknown Sex	0	-	00	_
Juvenile Male	0	_	00	
Juvenile Female	0		00	_
Juvunb Unknown Sex	0	-	00	_
Pup Male	0		00	
Pup Female	0	_	00	_
Pup Unknown Sex	0	_	00	
Male Unknown Age	0		00	
Femrb Unknown Age	0	-	00	_
Unknown Sex and Age	0	_	00	
Total	0		0.0	

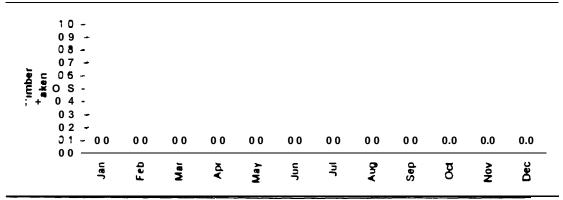
SOURCE: Alaska Department of Fish and Game, Division of Subaistence, Subaistence Study and Montor System for See Lione and Harbor Sears in Alaska, with assistance from



8. Seasonally Adjusted Take By Month



C. Cumulative Sessonally Adjusted Take By Month



SOURCE.

Alasks Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for See Lions and Harbor Seals in Alaska, with assistance from the City of Saxman and Saxman IRA Council. 1994.

TABLE 26. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: SAXMAN, 1993

SAMPLING DESIGN: TWO STRATA

SOURCE

Active Other Total Total Native Households 10 SI 61 Surveyed Households 9 29 38 Sampling Fraction 90 0% 56 9% 62 3% Sample Household Members 51 93 144 Estimated Household Members 56 7 1636 220 2

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households
Used 24 6%
Hunted 65 %
Harvested 3 6%
Received 24 6%
Gave Away 112%

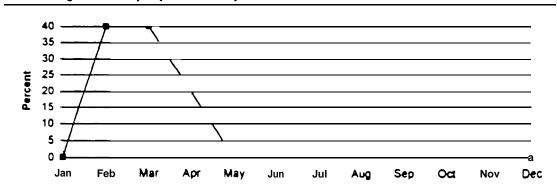
Estimated Community Harvest Ma Take (Expanded):
Total Number Harvested 5 6
Total Number Struck and Lost 0 0
Total Number Taken 5 6
Number Harvested Per Capita 0 03

HARBOR SEAL	L HARV	EST BY	SEAS	ON								L	hknown	
	مهز	Feb	Mar	Aor	May	ميد	ابيد	Aug	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND	AKE BY S	AMPLED	HOUSEHO	אטו צפטכ	EXPANDE) _}							
Harvest	0	2	2	1	0	0	0	0	0	0	0	0	٥	
Struck and Loss	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Taire	0	2	2	1	0	0	0	0	0	0	0	0	0	
ESTIMATED HAPM	EST AND	TAKE BY C	COMMUN	ITY (EXPA	NDEDI									
Harvest	0.0	2 2	2.2	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	5
Struck and Lost	0 0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0
Total Take	0 0	2 2	2.2	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	5.0
ESTIMATED SEASO	NALLY A	W USTED	HARVES	T AND TA	CE BY CO	MMUNITY	EXPANDE	וס:						
Hervest	0.0	2 2	2 2	11	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		5.0
Struck and Lost	0 0	0.0	0 0	0.0	00	0 0	0 0	0 0	0 0	0 0	0.0	0 0		0.
Total Take	0.0	2 2	2 2	11	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0		5.
Total Take (%)	0.0%	40.0%	40.0%	20 0%	0.0%	00%	0.0%	008	0.0%	0.0%	0.0%	0.0%		1001
Cumulative Take	0.0	2 2	44	5.8	56	56	56	56	5.6	5.6	5.6	5.6		
Cum. Take (%)	0.0	8 40.0%	80.0%	100.0%	100 0%	100 0%	100 0%	100 0%	100 0%	100.0%	100.0%	100.0%		

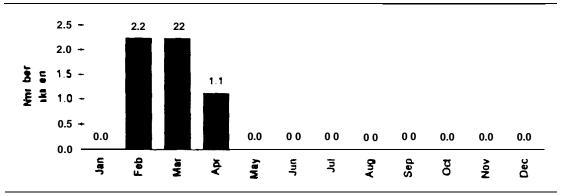
HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	1	20 0%	1.1	200%
Adult Femak	0	0.0%	0 0	00%
Adult Unknown Sex	0	0.0%	0 0	00%
Juvenile Male	0	0.0%	0 0	00%
Juvenile Female	0	0.0%	0 0	0.0%
Juvenile Unknown Sex	2	40 0%	2.2	40.0%
Pup Male	0	0 0%	0.0	0.0%
Pup Female	0	0.0%	0 0	00%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	2	40.0%	2.2	40 0%
Total	5	100.0%	5.6	100.0%

Alaska Department of Fish and Game. Division of Subaistence, Subaistence Study and Monitor System for Sea Lions and Harbor Seats in Alaska, with assistance from the City of Saxman and Saxman IRA Council, 1994.

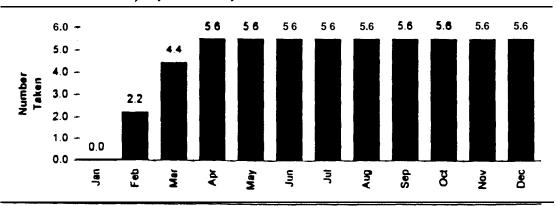
FIGURE 26. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: SAXMAN, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Saxman and Saxman IRA Council, 1994.

TABLE 27. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: SITKA, 1993

SAMPLING DESIGN: TWO STRATA

Total Native Households 71 418 489
Surveyed Households 64 30 94
Sampling Fraction 9 0 1% 7 2% 19 2%
Sample Household Members 2.20 112 332
Estimated Household Members 244 1 1580 5 1804 6

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:

Used 0 5 % Hunted 0 2% Harvested 0 0% Received 0 5 % Gave Away 0 2%

Estimated Community Harvest and Take (Expanded):

Tow Number Harvested 0.0

Total Number Struck and Lost 1.1

Total Number Taken 1.1

Number Harvested Per Capita 0.00

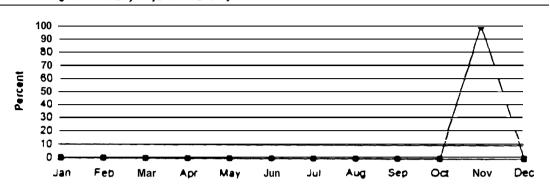
SEA LION HAI	KVESI (BY SEA	SON									U	nknown	
	Jan	Feb	Mar	Apr	May	ميز	املا	Aug	Sec	Oct	Nov 1	Oec	Month	Tota
REPORTED HARVE	ST AND	TAKE BY S	AMPLED	HOUSEHO	DLDS IUNI	DOPANOED))							
Hervest	0	0	0	0	0	3	3	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	3	၁	0	0	1	0	0	1
Total Take	0	0	0	0	0	0	0	0	0	0	1	0	0	1
ESTIMATED HARVI	EST AND	TAKE BY	COMMUNI	TY EXPA	NDED,									
Hervest	00	00	00	00	00	00	00	00	00	00	00	00	00	00
Struck and Lost	00	0.0	00	00	00	00	00	00	00	0.0	11	00	0.0	1 1
Total Take	00	00	00	00	00	00	00	00	00	00	1 1	0.0	00	1 1
ESTIMATED SEASO	DNALLY A	WUSTED	HARVES!	AND TA	CE BY CO	MUNITY (EXPANDE	וס						
Harvest	0.0	0.0	00	0.0	00	00	00	0.0	00	0.0	00	00		0.0
Struck and Lost	0.0	00	00	00	00	00	00	0.0	00	0.0	11	00		11
Total Take	0.0	0.0	00	0.0	00	00	00	00	00	00	11	0.0		11
Total Taire (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%		100%
Cumulative Take	0.0	0.0	00	0.0	00	00	00	00	00	00	1 1	1.1		
Cum Take (%)	0.08	0.0%	0.0%	0.0%	00%	0.0%	0.0%	0.0%	00%	0.0%	100 0%	100.0%		

SEA LION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	0		0.0	-
Adult Female	0	_	0.0	-
Adult Unknown Sex	а		0.0	
Juvenile Male	0	_	0.0	-
Juvenile F emale	0		0.0	
Juvenile Unknown Sex	0	_	0.0	
Pup Male	0	_	0.0	
Pup Fernsie	0		0.0	
Pup Unknown Sex	0	_	0.0	
Male Unknown Age	0	-	00	-
Female Unknown Age	0		0.0	-
Unknown Sex and Age	0		0.0	
foul	0	_	0.0	

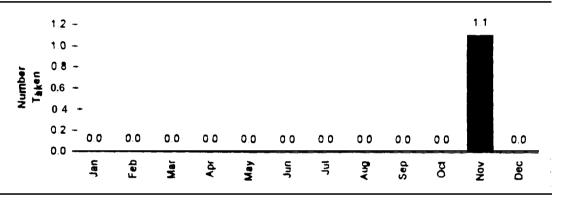
SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the ANB and Sitics Tribal Association, 1994.

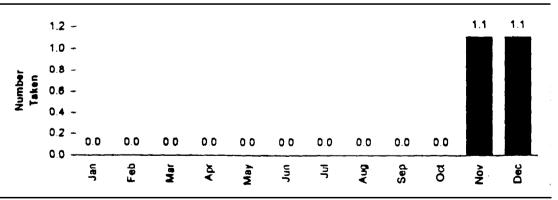
FIGURE 27. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: SITKA, 1993



B. Seasonally Adjusted Take By Month



C. Cumuktin Seasonally Adjusted Take By Month



SOURCE. Alaska Department of Frsh and Game. Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the ANB and Sitia Tribal Association, 1994.

TABLE 28. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: SITKA, 1993

SAMPLING DESIGN: TWO STRATA

Active O t h e r Total
Total Native Households 71 416 469
Surveyed Households 64 30 94
Sampling Fraction 90 1 % 7 2 % 19 2%
Sample Household Members 220 112 332
Estimated Household Members 244 1 1560 5 1804 6

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded):	
Used 7 1 6 %	Total Number Harvested 109	3
Hunted 13 6%	Total Number Struck and Lost 20	06
Harvested 9 9%	Total Number Taken 129	9
Received 6 7 8 %	Number Harvested Per Capita 0	06
Gave Away 250%		

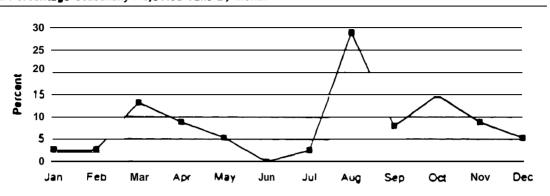
HARBOR SEAL		EST 8Y										_	INKNOWN	
	Jan	Feb	Mar	Apr	May	معد	ابد	Aug	Sep_	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND	AKE BY S	AMPLED	HOUSE H	OLDS (UN	EUPANDE	D)							
Harvest	2	2	14	10	6	0	3	9	,	15	10	6	3	87
Struck and Lost	0	1	1	0	0	0	0	1	2	2	0	0	0	7
Total Take	2	3	15	10	5	0	3	10	9	17	10	6	3	94
ESTIMATED HARM	EST AND	TAKE BY	COMMUN	TY (EXPA	MOEDI									
Hervest	2.2	2.2	155	111	67	0 0	3 3	22 8	7 8	16.6	11.1	67	33	109 3
Struck and Lost	0.0	11	11	0 0	0 0	0 0	0 0	139	2 2	2.2	0.0	00	00	20 6
Total Take	2.2	3.3	16.6	111	6.7	0 0	3 3	36 7	10 0	18 9	11 1	6 7	3 3	1299
ESTIMATED SEASO	NALLY A	DJUSTE	HARVES	T AND TA	KE BY CO	MMUNTY	(EXPANDE	ED)						
Harvest	2.3	2 3	16.0	11.4	69	0 0	3 4	23.5	6.0	172	114	6.9		1093
Struck and Loss	0 0	11	11	0.0	0 0	0.0	0 0	139	2 2	22	00	00		20.6
Total Take	2.3	3.4	17 1	114	6.9	0 0	34	37 5	10.2	194	114	6.9		129.9
Total Take (%)	1.8%	2.6%	13.2%	6.8%	5.3%	00%	2.6%	28.8%	7.9%	14 9%	8.8%	5 3%		100%
Cumulative Take	23	5.7	22.8	34 3	41 1	41.1	44 8	82.0	92.2	1116	123.1	129.9		
Cum. Take (%)	1.8%	4 4%	17 6%	28 4%	31 6%	31.6%	34 3%	63 1%	7 1 0	8 85 9%	94.7%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expended)	
Adult Male	46	529%	51.0	46 7%
Adult Female	1 6	20.7%	32.6	30.0%
Adult Unknown Sex	21	24 1%	23.3	21.3%
Juvenile Male	0	00%	0.0	0.0%
Juvenile Female	0	0.0%	0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	00%	0.0	0.0%
Pup Female	0	00%	0.0	0.0%
Pup Unknown Sex	1	11%	1.1	1.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	1 1%	1.1	1.0%
Total	67	100.0%	109.3	100.0%

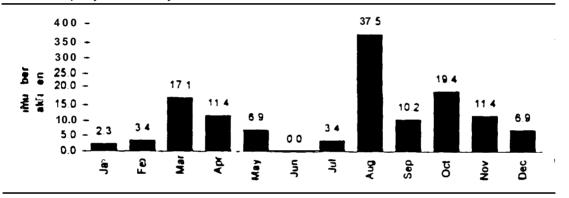
SOURCE: Aleaks Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Aleaks, with assistance from

the ANS and Sitks Tribal Association, 1994

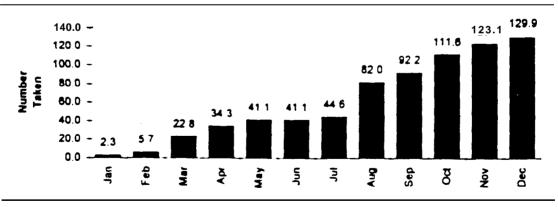
FIGURE 28. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: SITKA, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fren and Game. Division of Subsistence. Subsistence Study and Monitor System for See Lione and Harbor Seas in Alaska, with assistance from the ANB and Sitks Triber Association. 1994.

TABLE 29. SEA LION (Eumetopias jubetus) HARVEST AND TAKE ESTIMATES: WRANGELL, 1993

SAMPUNG DESIGN CHAIN REFERRAL

Total Sample Households 6
Surveyed Households 4
Sampling Fraction 66 7%
Sample Household Members 12
Estimated Household Members 18 0

SEA LION HARVEST AND USE INFORMATION

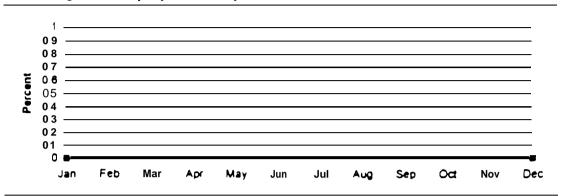
Percent Of Sample Hou	iseholds	Estimated Community Harvest and Take (Expanded	5) :
Used	0 0%	Total Number Harvested	0.0
Hunted	0 0%	Total Number Struck and	LOD GI
DORPYCH	0 0%	Total Number Taken	0 0
Received	0 0%	Number Harvested Per Capita	N/A
Gave Away	o 🛰		

SEA UC	ON HAR	VEST	B∀ SEA	ASON									L	inknown	
			Feb	•	Apr	May	200	14.6	4-9	Sec	Oct	Nov	Dec	Month	Total
PEPORTE	D -WAVE	2. M O	WE T	وعسمح	HOUSEH	DLDS NA	DOP AND ED	ת							
Hervedt	٥		o	9	0	0	0	0	٥	٥	0	0	0	0	0
Struck and	العضا ال	0	0	3	٥	0	Q	3	Q	a	0	0	0	0	C
Total	1	0	٥	Э	0	0	0	٥	٥	0	٥	0	0	0	C
ESTIMATE	D HAPVE	S* MQ	TAKE BY	COMMUN	MY (EXPA	NOEDI									
Hervest	00	(0 0	0.0	0.0	0.0	0.0	00	0.0	0.0	00	0.0	0.0	0.0	0.0
Struck and	سما ا	00	00	٥٥	0.0	0.0	0 0	00	٥٥	0.0	0.0	0.0	0.0	0.0	0.0
Total	Take	0.0	00	00	00	00	00	00	0.0	00	0.0	0.0	0.0	0.0	0.0
ESTIMATE	D SEASO	MALLY A	NOUSTE	D HARVES	T AND TA	CE BY CO	MMUNITY	EDPANDE	٥١						
Hervest	0.0	1	0.0	0.0	00	00	0.0	0.0	00	0.0	0.0	0.0	0.0		0.0
Struct and	d Loui	0.0	00	00	0.0	0.0	0.0	0.0	00	00	00	0.0	0.0		0.0
Total	Taxe	0.0	00	0.0	00	00	00	00	00	00	0.0	0.0	0.0		0.0
Total Take	• (%)														
Cumulativ	Take	00	00	00	90	0.0	0.0	00	00	00	0.0	0.0	0.0		
Cum Tak	(%)	0.0%	0.0%	0.0%	00%	00%	00%	0.0%	0.0%	00	0.0%	0.0%	0.0%		

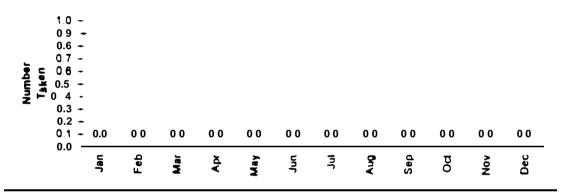
SEA LION HARVEST BY AGE	AND SEX	Rec	20700		Estimated	
		By S	M-1000	Percent	By Community	Percent
		(Unexpe	ndedi		(Expanded)	
Adult	Male		0		00	_
Adult	Female	ľ	0	_	00	_
HUDA	Unknown	Sex	0	_	00	
Juvenile	Mak		0	_	00	
Juvenile	Ferna	le	0	~	00	_
elinevut	Unknown	Sex	0	_	00	
Pup	Male		0	-	00	-
Pup	Female		0	-	00	-
Pup	Unknown	Sex	0	-	0.0	
Male	Unknown	Age	0	-	00	
Female	Unknown	Age	0	-	00	
Unknchy	n Sex and Age		0		0.0	
Total	-		0		00	

SOURCE. Aleaka Department of Fieh and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Luone and Harbor Seats in Aleaka, with assistance from the Wrangell Cooperative Association: 1994

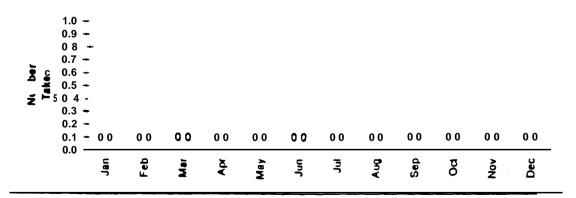
FIGURE 29. SEA LION (Eumetopies jubatus) TAKE ESTIMATES: WRANGELL t 993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Montor System for Sea Lions and Harbor Seals in Alaska, with assistance from

TABLE 30. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: WRANGELL, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households
Surveyed Households
Sampling Fraction 65 7 %
Sample Household Members 12
Estimated Household Members 1 8 0

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households:	Estimated Community Harvest and Take (Expande	ed)
used loo 0%	Total Number Harvested	195
Hunted 1000%	Total Number Struck and Lost	₽ 0
Harvested loo 0%	Total Number Taken	28 5
Received 25 0%	Number Harvested Per Capita	WA
Gave Away 75 0%		

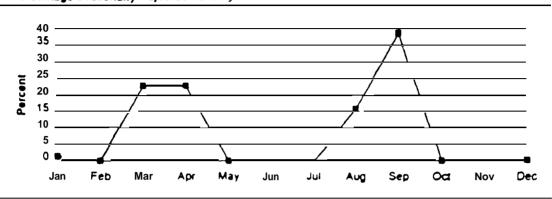
HARBOR SEAL	. HARV	EST BY	' SEASC	ON								Ĺ	inknown	
	Jan	Feb	Mar	Apr	May	ميد	ابط	Aug	Seo	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND T	AKE BY S	MPLED	HOUSEHO	DLDS (UNI	EXPANDE	D)					,		
Harvest	0	0	1	1	0	0	0	0	1	0	0	0	10	1
Struck and Loss	0	0	0	0	0	0	0	3	3	0	0	0	0	
Total Tan	0	0	1	1	0	0	0	3	4	0	0	0	10	11
ESTIMATED HARVE	EST AND	TAKE BY	COMMUN	TY (EXPA)	NOEDI									
Hervest	0.0	0.0	15	1.5	0 0	0 0	0 0	0 0	1.5	0 0	0.0	0 0	15.0	19
Struck and Lost	0.0	0 0	0 0	0 0	0 0	0 0	0 0	4 5	4.5	0 0	0 0	0.0	0.0	9
Total Take	0.0	0.0	1.5	1 5	0 0	0 0	0 0	4 5	6 0	0 0	0 0	0.0	15.0	28.
ESTIMATED SEASO	NALLY A	DJUSTED	HARVES	T AND TA	Œ BY CO	MMUNITY	EPANDE	ED)						
Hervest	0.0	0.0	8.5	6.5	0.0	0.0	0.0	00	6.5	0.0	0.0	0.0		19
Struck and Lost	0.0	0.0	0.0	0.0	00	00	0.0	4.5	4.5	00	0.0	0.0		9.0
Total Take	0.0	0.0	6.5	6.5	00	0.0	0.0	4 5	110	0.0	0.0	0.0		28.
Total Take (%)	0.0%	0.0%	22.8%	22.8%	0.0%	00%	00	15 8%	38.6%	0.0%	0.0%	0.0%		1001
Cumulative Take	0.0	0.0	6.5	13.0	1 3 0	13.0	130	17 5	28 5	28.5	28.5	28.5		
Cum. Take (%)	0.0%	0.0%	22.8%	45 6%	45 6%	45 6%	45 6%	61 4%	100 0%	100 0%	100 0%	100 0%		

HARBOR SEAL HARVEST BY AGE AND S&X	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expended)	
Adult Male	2	15 4%	3 0	154%
Adult Female	1	7.7%	1.5	7 7%
Adult Unknown Sex	7	53 8%	10.5	53 8%
Juvenile Male	0	00%	0 0	00%
Juvenile Female	0	00%	0 0	00%
Juvenile Unknown Sex	0	00%	0.0	0.0%
Pup Maie	0	00%	0 0	00%
Pup Female	0	00%	0 0	00%
Pup Unknown Sex	0	00%	0.0	00%
Male Unknown Age	0	00%	0.0	0.0%
Female Unknown Age	0	00%	0 0	00%
Unknown Sax and Age	3	23 1%	4 5	23.1%
Total	13	1000%	19.5	100.0%

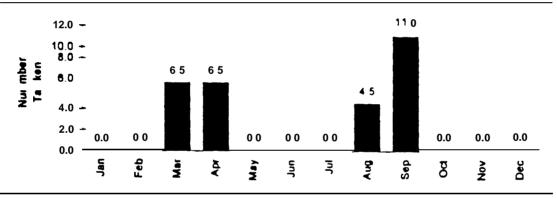
Alaska Department of Fish and Game, Division of Suberstance, Suberstance Study and Monitor System for See Lione and Harbor Seets in Alaska, with assistance from the Wrangell Cooperative Association, 1994.

SOURCE.

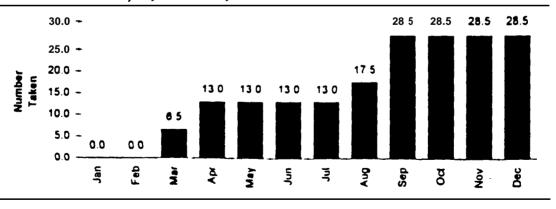
FIGURE 30. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: WRANGELL, 1993



B. Seasonally Adjusud Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE. Alaska Department of Fish and Game. Division of Subarstence. Subarstence Study and Monitor System for Sea Lione and Harbor Seats in Alaska, with assistance from the Wrangell Cooperative Association. 1994.

TABLE 31. SEA LION (Eumetopies jubatus) HARVEST AND TAKE ESTIMATES: YAKUTAT. 1993

SAMPLING DESIGN. CENSUS

Total Native Households 117 Surveyed Households 106 Sampling Fraction 90 6% Sample Household Members 345 Estimated Household Members 380 6

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Hous	enoids	Estimated Community Harvest and Take (Expanded)					
Used	09%	Total Number Harvested	00				
Humed	00%	Total Number Struck and Lost	0 0				
Harvested	0 0%	Total Number Taken	0 0				
Received	0 9%	Number Harvested Per Capita	0 00				
Gave Away	00%						

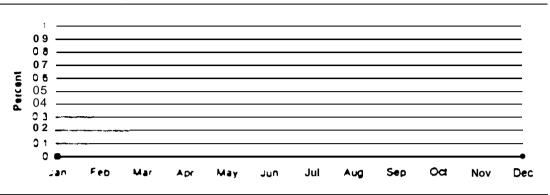
SEA LION HAP	RVEST	BY SEA	SON									L	Inknown	
	Jan	Feb	Mar	Apr	May	ميد	بيد	4-0	Sec	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	EST AND	TAKE BY S	AMPLED I	HOUSEHO	DLDS IUN	EXPANOE!))							
Harvest	0	0	0	0	0	С	٥	0	0	0	0	0	0	(
Struck and Lost	0	0	0	0	0	0	C	0	0	0	0	0	0	(
Total Take	0	0	0	0	0	0	a	٥	٥	0	0	0	0	0
ESTIMATED HARV	EST AND	TAKE BY	COMMUNI	TY (EXPA	HOEDI									
Harveet	0 0	0 0	0 0	0 0	0 0	0 0	00	00	0 0	0 0	0 0	0 0	0.0	00
Struck and Lost	0 0	0 0	0 0	0 0	0 0	0 0	СО	00	0 0	00	00	00	0.0	00
Tow Take	0 0	0 0	0 0	0 0	0 0	0 0	00	00	0 0	0 0	0 0	0.0	00	00
ESTIMATED SEAS	ONALLY A	WUSTED	HURVEST	AND TA	Œ 87 CO	MMUNITY	EXPANDE	וס						
Harvest	0 0	0 0	0 0	0 0	0 0	0 0	00	00	0 0	0 0	0 0	0 0		0 0
Struck and Lost	0 0	0 0	0 0	0 0	0 0	0 0	00	00	0 0	0 0	0 0	0.0		0.0
Total Take	0 0	0.0	0 0	0 0	0 0	0 0	00	00	0 0	0 0	0.0	0 0		0.0
Total Take (%)	_	-	-	_	-	-						_		
Cumulative Take	0.0	0 0	0 0	0 0	0 0	0 0	00	00	0 0	0 0	0.0	0.0		
cum. Take (%)	0.0%	0.0%	0.0%	00%	00	00	008	00	0.0%	0.0%	0.0%	0.0%		

SEA UON HARVEST BY AGE AND SEX	Reported By Sample	Percent	Estimated By Community	Percent
	(Unexpended)		(Expended)	
Adult Mate	0	_	00	
Adult Female	0		00	
Adult Unknown Sax	0		00	
Juvenile Male	0	-	00	
Juvenile Female	0		00	_
Juvenile Unknown Sex	0	-	00	
Pup Male	0		00	
Pup Female	0		0.0	_
Pup Unknown Sex	0		0.0	_
Male Unknown Age	0	_	0.0	
Female Unknown Age	0	_	00	
Unknown Sex and Age	0	_	00	
Total	0		0.0	

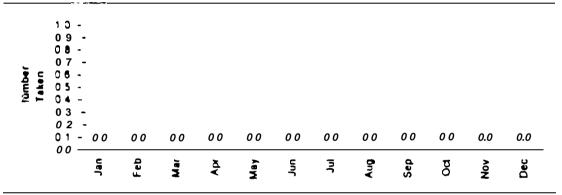
SOURCE:

Alaska Department of Fish and Game. Division of Subsissance. Subsissance Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Yakutat ANB/ANS, Yakutat Native Association, and Yak-Tat Kwaan, Inc., 1994.

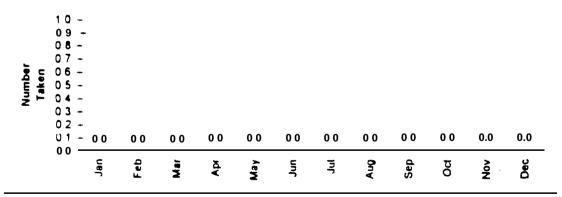
FIGURE 31. SEA UON (Eumetopies jubatus) TAKE ESTIMATES: YAKUTAT. 1993



B. Seasonally Adjusted Take By Month



C. Cumulattw Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for See Lons and Harbor Seals in Alaska, with assistance from the Yakutat ANB/ANS. Yakutat Native Association, and Yak-Tat Kwaan, Inc., 1994.

TABLE 32. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: YAKUTAT. 1993

SAMPLING DESIGN: CENSUS

Total Native Households 117
Surveyed Households 106
Sampling Fraction 90 6%
Sample Household Members 345
Estimated Household Members 380 8

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Hou	seholds	Eshmated Community Harvest and Take (Expanded).						
Used	93 4%	Total Number Harvested	568 4					
Hunted	33 0%	Total Number Struck and Lost	57 4					
Harvested	31 1%	Total Number Taken	625 8					
Received	88 7 %	Number Harvested Par Capita	1.49					
Gave Away	60 4%							

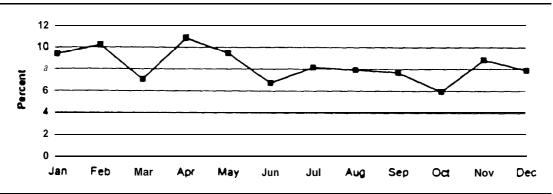
HARBOR SEAL	OR SEAL HARVEST BY SEASON									Unknown				
	Jan	Feb	Mar	Aor	May	میز	اماد	440	Seo	Oct	Nov	Dec	Month	Tour
REPORTED HARVE	ST AND	TAKE BY	SAMPLED	HOUSEH	DLDS (UN	EXPANDE	Di .							
Harvest	45	49	31	52	44	28	32	38	24	17	41	3 5	79	515
Struck and Loss	0	0	2	0	1	3	5	0	9	a	1	2	21	52
Total Take	45	49	33	52	45	31	37	36	33	25	42	37	100	567
ESTIMATED HARVE	ST AND	TAKE BY	COMMUN	MY (EXPA	NDEDI									
Hervest	49.7	541	34 2	57 4	48 5	30 9	35 3	41 9	26 5	18.8	45.3	38.6	87.2	568.4
Struck and Lost	00	0.0	2.2	00	1 1	33	5 5	00	99	8 8	1	29	23.2	5 7 4
Total Take	49.7	54 1	36 4	57 4	49 7	34 2	40 8	41 9	36 4	27s	46.4	40.8	110.4	625 8
ESTIMATED SEASO	NALLY A	NOJUSTE !	HARVES	T AND TA	KE BY CO	MMUNITY	(EXPANDE	EDI						
Hervest	58.7	63.9	40 4	57 8	57 4	36 5	417	49 5	31 3	22.2	s.5	45.6		568.4
Struck and Lost	0.0	0.0	3 7	00	19	5 6	9 3	00	16.7	14.8	1.9	3 7		57 4
Total Take	58.7	63.9	44 1	67.8	59 2	42 1	5 1 0	49 5	48 0	no	55.3	49.3		625.8
Total Take (%)	9.4%	10.2%	7.0%	r o n	9 5%	on	8 1%	7 9%	7.7%	5 9%	8.8%	7.98		100%
Cumulative Take	58.7	122.6	186 7	234 5	293 7	335 7	386 7	436 3	484 2	521.2	576.5	625.8		
Gun. Take (%)	9.4%	19.6%	26 6%	37 5%	46 9%	53.6%	61 8%	69 7%	77.4%	83 3%	92 1%	100.0%		

HARBOR SEA	L HARVEST BY AGE AND SEX	Reported		Estimated	
		By Sample	Percent	By Community	Percent
		(Unexpanded)		(Expanded)	
	Mutt Male	180	35 0%	198 7	35 0%
	Adult Female	100	194%	1104	194%
	Adult Unknown Sex	102	19 8%	1126	198%
	Juvenile Male	6	12%	6.6	12%
	Juvenile Female	3	0 6%	3.3	06%
	Juvenile Unknown Sax	16	3 1%	17.7	3 1%
	Pup Male	0	00%	0 0	00%
	Pup Female	0	00%	0 0	00%
	Pup Unknoww Sax	11	21%	12.1	2.1%
	Male Unknown Age	2	04%	2.2	0 4 %
	Female Unknoww Age	0	00%	0.0	0.0%
	Unknown Sex ● ncl Age	95	18 4%	104.9	18 4%
	Total		100.0%		100.0%

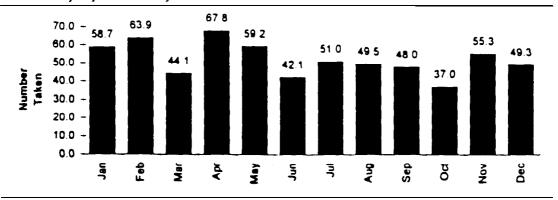
SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Yakutat AMB/ANS, Yakutat Native Association, and Yak-Tat Kwean, Inc., 1994.

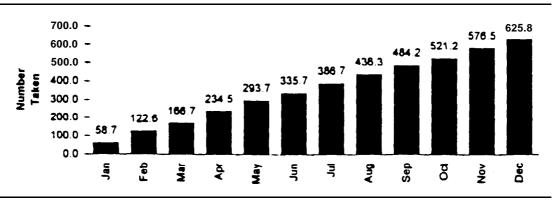
FIGURE 32. HARBOR SEAL (Phocs vitulins) TAKE ESTIMATES: YAKUTAT. 1993



B. Seasonally Adjumod Take By Month



C. Cumulative Seasonally Adjuhd Take By Month



SOURCE.

Alaska Department of Freh and Game, Division of Subarstence, Subarstence Study and Montor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Yakutat ANB/ANS, Yakutat Native Association, and Yak-Tat Kwaan, Inc., 1994.

NORTH PACIFIC RIM

TABLE 34. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: CHENEGA BAY, 1993

SAMPLING DESIGN. CENSUS

Total Native Households 21
Surveyed Households 19
Sampling Fraction 90.5%
Sample Household Members 74
Estimated Household Members 81.8

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households
Used 84.2%
Total Number Harvested 60.8
Hunted 63.2%
Total Number Struck and Lost 2.2
Hervested 57.9%
Received 78.9%
Number Harvested Per Capita 0.74
Gave Avery 47.4%

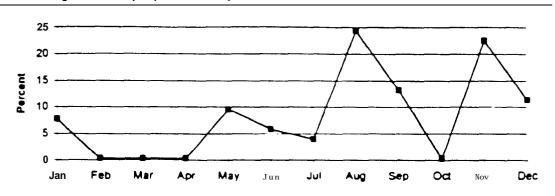
HARBOR SEA	L HARVE	STBY	SEASO	N								ι	inknown	
		6 €0	-	Apr	May	مير	ارو	Aug.	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HAM	ES. 440 .	ME 87 5	~~	-OUSEH	OLOS (UN	EUP ANDE	O1							
I -		0	С	С	5	3	2	13	7	0	12	6	3	55
Struct and Loss	0	С	0	0	0	С	0	0	0	0	0	0	2	2
Total Tare		0	c	0	3	3	2	13	7	0	12	6	5	57
ESTIMATED HARV	EST 440 1	ME BY	COMMUN	m (Eur	WOED:									
Hervest	4.6	00	σc	00	5 5	33	22	14.4	77	00	13.3	66	3.3	60.6
Structs and Loss	CO	00	00	ОС	00	00	00	00	0 0	00	00	0.0	2.2	2.2
Total Take		00	ОС	00	5 5	3 3	22	14.4	7 7	00	133	66	5.5	63.0
ESTIMATED SEAS	ONALLY A	QUSTE:	HARVES"	TANC TA	KE BY CO	~~~	(EXPANDE	EDI						
Harvest	4.7	ос	0.0	00	5.8	3.5	23	15.2	62	00	14.0	7.0		60 8
Struck and Loss	02	02	0.3	02	C Z	02	02	02	02	0.2	0.2	0.2		2.2
Total Take	4 9	0.2	02	02	60	3 7	25	15.4	84	02	1 4 2	7.2		63.0
Total Tare RI	77 0	n	on	cn	96%	5 9%	40%	2 4 4 %	13.3%	o n	22 61	11 4%		100%
Cumulative Taxe	4 9	5 0	5.2	5 4	11.4	15 1	17 7	33 0	41.4	41 6	55.8	63.0		
Cum Take (%)	7.7%	80%	8.3%	86%	18.2%	24.0%	28 3%	52 4%	65 7%	66 0%	88 6%	100 0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Peponed		Estimated	
	By Sampre	Percent	By Community	Percent
	(Unexpended		(Expended)	
Adult Male	9	164%	99	164%
Adult Female	4	7 3%	4.4	7 3%
Adult Unknown Sex	14	25 5%	155	255%
Juvenile Male	4	7 3%	4 4	7 3%
Juvenile Female	3	5 5%	3 3	55%
Juvenile Unknown Sex	14	255%	155	255%
Pup Male	1	1 6%	11	1 6%
Pup Female	1	1.8%	11	1 8%
Pup Unknown Sex	2	30%	2 2	36%
Male Unknown Age	0	00%	0 0	00%
Female Unknown Age	0	0 0%	0 0	0 0%
Unknown Sex and Age	3	5 5%	33	5 5%
Total	55	100 0%	60.8	100.0%

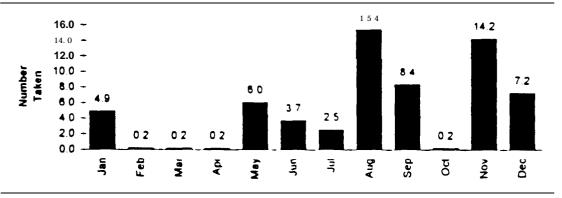
SOURCE

Alaska Department of Frah and Game. Division of Subsistence. Subsistence Study and Monitor System for Sae Lons and Harbor Seats in Alaska, with assistance from the Chenega Bay IRA Council. 1994.

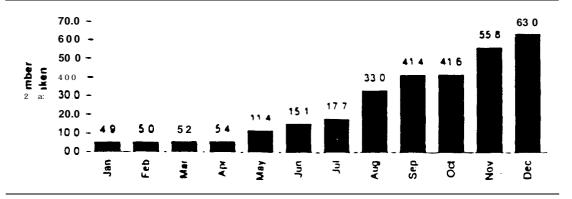
FIGURE 34. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: CHENEGA BAY. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea work and Harbor Sears in Alaska, with assistance from the Chenega Bay IRA Council: 1994.

TABLE 35. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: CORDOVA, 1993

SAMPLING DESIGN: THREE STRATA

Active Other Total

Total Native Households 1 3 1181 Surveyed Households 9 19 28

Estimated Household Members 375 380.2 417.7

SEA UON HARVEST AND USE INFORMATION

Percent Of Native Households: Eshmated Community Harvest and Take (Expanded). Used 06% Total Number Harvested Total Number Struck and Lost Hunted 00 0 8 % Harvested 0.8% Total Number Taken 15 Received 0.0% Number Harvested Per Capita 0 00 Gave Away 0 6%

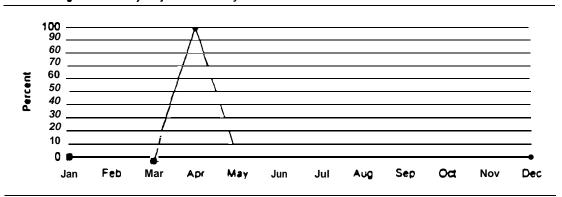
SEA UON HAF	RVEST	BY SEA	SON									υ)nknown	
	Jen	Feb	Mar	Apr	May	مد	امط	Aug	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST BY SA	MPLED H	OUSEHO	COS (UNI	EXPANDE	D)								
Hervest	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	1	0	0	0	0	0	0	0	0	0	1
ESTIMATED HAPM	EST BY C	OMMUNE	TY (EXPA	NOEDI										
Harvest	0.0	0.0	00	1.5	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1.5
Struck and Lost	0.0	00	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Total T M	0.0	0.0	00	1.5	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	1 5
ESTIMATED SEASO	DNALLY A	DJUS TEI	HARVES	T BY CO	MMUNITY	(EXPANDE	ED)							
Harvest	0.0	0.0	00	1.5	00	0.0	00	00	00	00	.00	00		1 5
Struck and Lost	0.0	00	00	00	00	0.0	0.0	00	00	00	00	00		00
Total Taxe	0.0	0.0	00	1 5	00	00	00	00	00	00	00	00		1.5
Total Take (%)	0.0%	0.0%	0.0%	100 0%	00%	0.0%	00%	0.0%	0.0%	0.0%	0.0%	00%		100%
Cumulative Take	0.0	0.0	0.0	15	1.5	15	1.5	1 5	1 5	1 5	1.5	1.5		
Cum Take (%)	0.0%	0.0%	00	100 0%	100.0%	100.0%	100.0%	100 0%	100 0%	100 0%	100.0%	100 0%		

SEA LION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expended)	
Adult Mole	0	00	00	0.0%
Adult Female	0	00	0.0	0.0%
Adult Unknown Sex	1	100 0%	1 5	100 0%
Juvenile Male	0	00%	0.0	a m
Juvenile Femme	0	00	0.0	0.0%
Juvenile Unknown Sex	0	00	0 0	0.0%
Pup Male	0	00	00	0.0%
Pup Female	0	00	00	00%
Pup Unknown Sex	0	0.0%	0.0	00%
Male Unknown Age	0	00	00	0.0%
Female Unknown Age	0	00%	0 0	0.0%
Unknown Sex and Age	0	00	00 _	om
Total	1	100 0%	1.5	100 0%

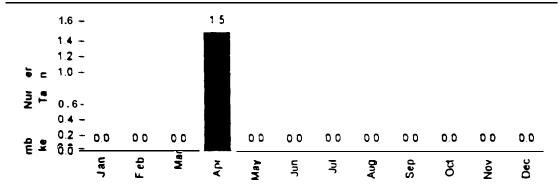
SOURCE

Alaska Department of Fish and Game. Division of Subarstance: Subarstance Study and Monitor System for Sea Liona and Harbor Seats in Alaska, with assistance from the Traditional Village of Eyex, 1994.

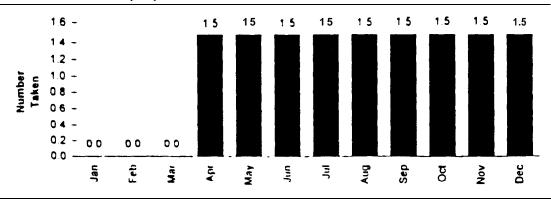
FIGURE 35. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: CORDOVA. 1993



8. Seasonally Adjusted Take By Month



c. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Montor System for Sea Lions and Harpor Seas in Alaska. with assistance from the Traditional Village of Eyak. 1994.

TABLE 36. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: CORDOVA. 1993

SAMPLING DESIGN: THREE STRATA

SOURCE

Active Other Total Total Native Households 181 168 13 28 Surveyed Households 18 Sampling Fraction 69.2% 11.3% 15 5% Sample Household Members 26 43 69 37 5 380 2 417 7 Estimated Household Members

HARBOR SEAL HARVEST AND USE INFORMATION

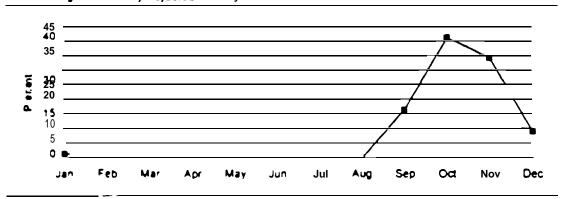
Percent Of Native Households
Used 44.7%
Humed 16.2%
Total Number Struck and Lost
Total Number Struck and Lost
Total Number Taken

HARBOR SEAL	. HARV	EST BY	SEASC	N								Ú	nknown	
	Jen	Feb	Mer	Aor	May	340	برو	Aug	See	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST BY SA	MPLED H	OUSEHOL	DS (UNE	CEOMARX	;								
Harvest	0	0	0	0	0	0	0	0	16	44	38	9	0	107
Struck and Loss	0	0	0	0	0	0	C	0	1	2	2	0	0	5
Total Take	0	0	0	0	0	0	0	0	17	46	40	9	0	112
ESTIMATED HARVI	EST BY C	OMMUNIT	Y (EXPAN	DED:										
Harvest	00	00	00	00	0 C	cc	00	00	23 8	80 7	49.3	13.5	0.0	1474
Struck and Lost	00	00	00	00	00	00	00	00	10	20	2.5	0.0	0.0	5.5
Total Taxe	00	00	0 C	00	00	00	00	00	24 8	62 7	51 🗸	135	0.0	152.9
ESTIMATED SEASO	NALLY A	DJUSTED	HARVES!	BY COM	MUNITY (EXPANDE)i							
Harvest	0 0	0 0	0 0	0 0	0 C	0 C	0 0	00	23 8	80.7	493	135		147 4
Struck and Loss	0 0	0 0	0 0	0 C	0 C	0 0	0 0	00	1.0	20	25	0.0		5.5
Total Take	0 0	0 0	0 С	0 0	0 C	0 0	0 0	00	24 8	62 7	51 8	13.5		152.9
Total Take (%)	0.0%	0.08	0.0%	0 0	o m	o m	0.0%	0.0%	16.3%	41.0%	33 9%	8.8%		100%
Cumulative Take	0 0	0 0	0 0	СО	ос	0 0	0 0	0 0	24 8	87.5	139 4	152 9		
cum Taxe (%)	0.08	0.0%	o m	c m	c m	o m	00	00	16.3%	57 3%	91.2%	100 0%		

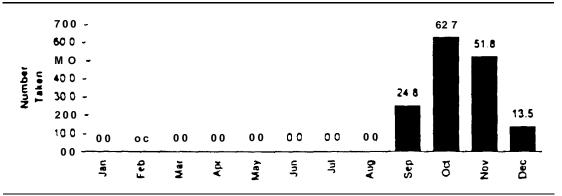
HARBOR SEAL HARVEST BY AGE AND SEX	Рероглес		Estimated		
	By Samore	Percent	By Community	Percent	
	(Unexpanded		(Expended)		
Adult Male	66	54 58	93 2	63 2%	
Adult Female	יז	ささ	35 3	24 0%	
Adult Unknown Sex	C	00	0.0	00%	
Juvenile Male	6	5 6%	13.8	9.4%	
Juvenile Female	0	00%	0.0	00	
Juvenile Unknown Sex	C	00	00	o m	
Pup Male	0	00	0.0	0.0%	
Pup Female	C	00	0.0	00	
Pup Unknown Sex	C	a m	0.0	000	
Male Unknown Age	5	475	50	3 4 %	
Female Unknown Age	2	00	0.0	00%	
Unknown Sex and Age	С	00	00	0.0%	
Total	יסי	100 0%	147 4	100 0%	

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Sears in Alaska.

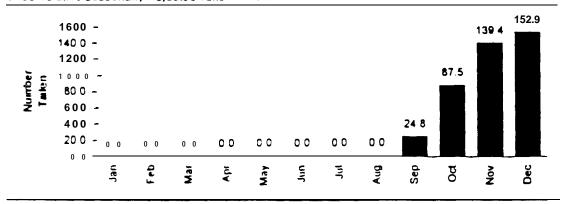
with assistance from the Tradisional Willage of Eyes: 1994.



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence Subsistence Study and Monitor System for Sea John and Harbor Seals in Alaska with assistance from the Traditional Village of Eyax. 1994.

TABLE 37. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: NANWALEK, 1993

SAMPLING DESIGN: CENSUS

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
129
140 7

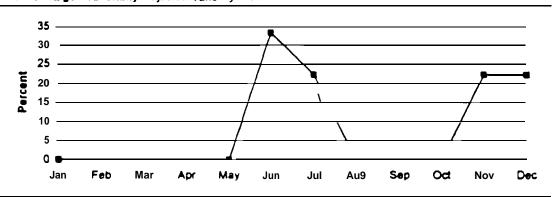
SEA LION HARVEST AND USE INFORMATION

SEA LION HAI	RVEST	BY SEA	ASON									L	Inknown	
	الطال	Feb	Mar	Apr	May	Am	انبلا	Aug	Sep_	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND	AKE BY	SAMPLED	HOUSE	HOLDS (U	NEOPANOE	וס							
Hervest	0	0	0	0	0	1	1	0	0	0	1	1	4	
Struck and Lost	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Total Take	0	0	0	0	0	2	1	0	0	0	1	1	4	8
ESTIMATED HARVE	EST AND	TAKE BY	COMMUN		ANDED)									
Harvest	0.0	0 0	0 0	00	00	11	1 1	0 0	0 0	0 0	11	1 1	4 4	8.7
Struck and Lost	0.0	0.0	0 0	00	00	3.1	0 0	0 0	0 0	0 0	0 0	0.0	0.0	1 1
Total Take	0.0	0.0	0 0	00	00	2 2	1 1	0 0	0 0	0 0	1 1	11	4 4	9.6
ESTIMATED SEASO	NALLY A	DJUSTE	D HARVES	T AND T	AKE BY C	DMMUNITY	EXPANDE	ED)						
Harvest	0.0	0.0	0 0	00	00	2 2	2 1	0 0	0 0	0 0	2.2	2 2		6 7
Struck and Lost	0.0	0.0	0 0	00	00	11	0 0	0 0	0 0	0 0	0 0	0 0		11
Total Take	0.0	0.0	0 0	00	00	3 3	2 2	0 0	0 0	0.0	2.2	2.2		9.8
Tow Take (%)	0.0%	0.0%	800	800	0.0%	33.3%	22 2%	0.0%	0.0%	0.0%	22.23	22.23		1003
Cumulative Take	0.0	0 0	0 0	00	00	33	5 5	5 5	5.5	5 5	7 6	9.8		
Cum Take (%)	0.08	00%	000	00%	00	33.3%	55 6%	55 6%	55 6%	55 6%	77 8%	100 0%		

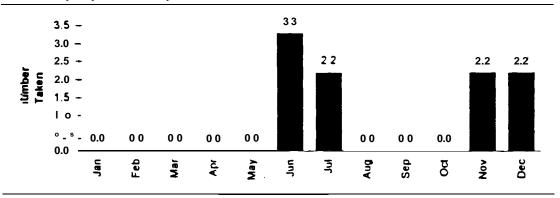
SEA LION HARVEST BY AGE AND SD:	Peponed		Estimated	
	By Sampie	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Mull Male	3	37 5%	3 3	375%
Adult Female	0	00%	0 0	00%
Adult Unknown Sex	4	500%	4 4	50 0%
Juvenile Male	0	00%	0 0	0 0%
Juvenile Femau	1	12 5%	11	125%
Juvenile Unknown Sex	0	00%	0 0	00%
Pup Male	0	0.0%	0 0	00%
Pup Female	0	00%	0 0	00%
Pup Unknown Sex	0	00%	0.0	0 0%
Male Unknown Age	0	00%	0 0	00%
Female Unknown Age	0	00%	0 0	00%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	8	100 0%	8.7	100.0%

SOURCE

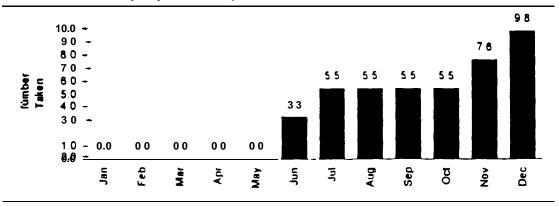
Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for See Lions and Hisroor Seals in Alaska: with assistance from the Narrwelek Traditional Council and English Bay Corporation. 1994.



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted lake By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seas in Alaska, with assistance from the Nanwalek Traditional Council and English Bay Corporation. 1994.

TABLE 38. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: NANWALEK, 1983

SAMPLING DESIGN: CENSUS

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
1407

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households
Used 9 7 0 %

Hunted 394%
Harvested 30 3%
Received 9 3 9 %
Cave Away 909%

E - Community Harvest and Take (Expanded)

Total Number Struck ● MLost
33
Total Number Struck ● MLost
32 7
Number Harvested Per Capita 0.21

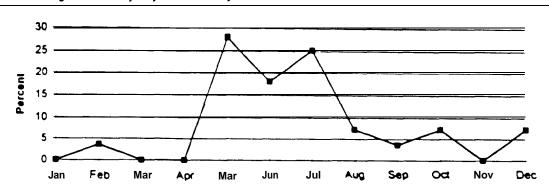
HARBOR SEAL	L HARV	EST BY	SEASC	N								Ĺ	inknown	
	Jen	Feb	Mar	Apr	May	مبد	<i>ب</i> ر	Aug	Seo	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND T	AKE BY S	AMPLED I	OUSEH	OLDS (UN	EPPANOE	D)							
Harvest	0	1	0	0	5	5	,	2	1	2	0	2	2	2 7
Struck and Lost	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Total Take	0	1	0	0	8	5	7	2	1	2	0	2	2	30
ESTIMATED HARM	EST AND	TAKE BY C	OMMUNI	TY (EXP	WDED)									
Harvest	0.0	1 1	0 0	0 0	5.5	5 5	76	2 2	1 1	2 2	0 0	2.2	2 2	a s
Struck and Lost	0.0	0.0	0 0	0 0	3 3	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	3.3
Total Take	0.0	1.1	0 0	0 0	8 7	5 5	76	2 2	11	2 2	0 0	2.2	2 2	32.7
ESTIMATED SEASO	ONALLY A	DJUSTED	HARVES!	AND TA	KE BY CO	MMUNITY	(E)PANOE	EDI						
Harvest	0.0	1 2	0.0	0 0	5 9	59	8.2	2 4	1.2	2 4	0 0	2 4		29 5
Struck and Lost	0.0	0.0	0 0	0 0	3 3	0 0	0 0	0 0	0 0	0 0	0 0	0.0		3.1
Total Take	0.0	1 2	0 0	0 0	9 2	5 9	6 2	2 4	1 2	2 4	0 0	2 4		32.7
Total Take (%)	0.0%	3.6%	0.0%	0.0%	28 0%	18.0%	23.7%	7.2%	3.6%	7.2%	0.0%	72%		100%
Cumulative Take	0.0	1 2	1.2	1.2	103	16.2	2 4 5	266	28 0	30 4	30 4	32.7		
Cum Take (%)	0.0%	36%	3 6%	36%	31 6%	49 6%	74 8%	82 0%	85 6%	92 8%	92 8%	100 0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Samore	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Mull Male	9	33.3%	98	33 3%
Mull Female	1	3 7%	11	37%
Adult Unknown Sex	7	25 9%	7 6	259%
Juvenile Male	8	22 2%	6.5	222%
Juvenile Female	3	11.1%	3 3	111%
Juvenile Unknown Sex	1	3 7%	11	3 7%
Pup Male	0	0 0%	0 0	00%
Pup Female	0	0.0%	0 0	00%
Pup Unknown Sex	0	0.0%	0.0	0.0%
M ale Unknown Age	C	0.0%	0 0	00%
Female Unknown Age	0	0.0%	0.0	00%
Unknown Sex and Age	0	0 0%	0.0	0.0%
Total	27	100 0%	29.5	100.0%

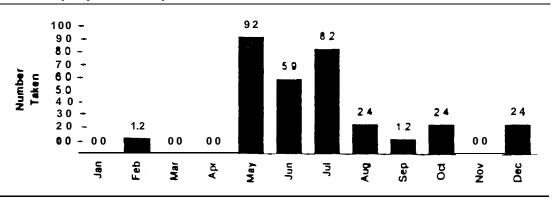
SOURCE.

Alaska Department of Fish and Gerne, Division of Subsistence, Superstence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Narwalek Traditional Council and English Bay Corporation, 1994.

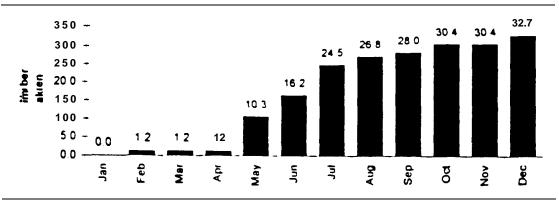
FIGURE 38. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: NANWALEK, 1 993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alasks Department of Fish and Game. Division of Subsistence. Subsistence Study and Montor System for Sea Lions and Harbor Seats in Alaska, with assistance from the Narwalek Traditional Council and English Bay Corporation.

TABLE 39. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: PORT GRAHAM, 1993

SAMPLING DESIGN: CENSUS

Total Native Households 59
Surveyed Households 56
Sampling Fraction 94 9%
Sample Household Members 155
Estimated Household Members 163 3

SEA LION HARVEST AND USE INFORMATION

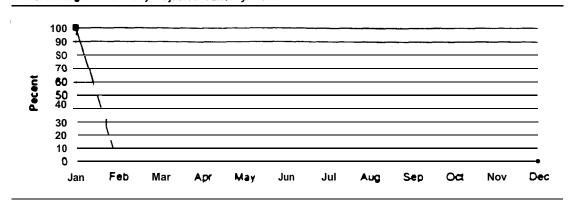
Percent Of Native Households:	Estimated Community Harvest and Take (Expand)	od):
Used 12.5%	Total Number Harvested	1.1
Hunted 7 1%	Total Number Struck and Lost	0 0
Harvested 1.8%	Total Number Taken	11
Received 12.5%	Number Harvested Per Capita	0 01
Gave Amy 3.6%		

SEA LION HA	RVEST	BY SEA	ASON									ι	Inknown	
	Jen	Feb	Mer	Apr	May	مد .	14.6	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARV	EST AND	TAKE BY	SAMPLED	HOUSEH	OLDS (UP	EPANOE	.Dı							
Hervest	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Struck and Lost	0	0	0	0	0	0	0	0	0	٥	٥	0	0	c
Total Take	1	0	0	0	0	0	0	0	0	0	٥	0	0	1
ESTIMATED HARN	EST AND	TAKE BY	COMMUN	ALLA LEDOS	NOEDI									
Harvest	11	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0	1 1
Struck and Lost	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0.0	0.0
Total Taire	11	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0.0	1 1
ESTIMATED SEAS	ONALLY	ADJUSTE	D HARVES	T AND TA	KE BY CO	MMUNITY	(EXPANO	ED)						
Harvest	1.1	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0		1 1
Struck and Lost	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0 0		0.0
Total Take	1.1	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		1 1
Total Take (%)	100.0%	0.0%	0.0%	00%	00	0.0%	00	00%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	1.1	11	11	1 \$	11	11	1 1	† 1	1 1	1 1	11	11		
Cum Take (%)	100.0%	100.0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%		

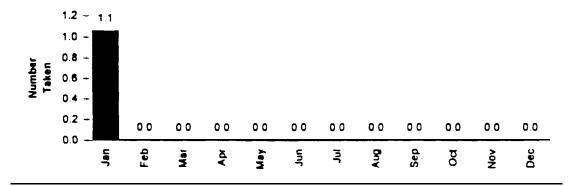
S&A LION HARVEST BY AGE AND SEX	Pepphed		E m -	
	By Samore	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0 0	0 0%
Adult Female	. 0	0.0%	0.0	0 0%
Adult Unknown sex	0	0.0%	0 0	0.0%
Juvenile Male	1	100 0%	1 1	100 0%
Juvenile Female	0	0.0%	0.0	0 0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0 0	0 0%
Pup Unknown Sax	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0 0	0.0%
Unknown Sex and Age	0	0 0%	0	0.0%
Total	1	100 0%	1.1	1000%

SOURCE. Alaska Department of Fran and Game. Division of Subsistence. Subsistence Study and Monitor System for Saa Lone and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation. 1994.

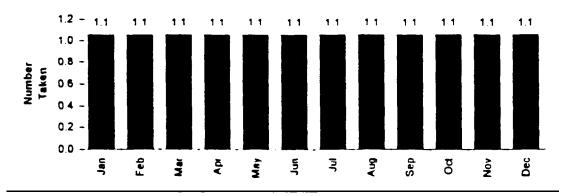
FIGURE 39. SEA LION (Eumetopies jubetus) TAKE ESTIMATES: PORT GRAHAM. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alasks Department of Fish and Game. Division of Subsistence Study and Monitor System for Sea Lone and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation. 1994.

TABLE 44. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: PORT GRAHAM, 1993

SAMPLING DESIGN CENSUS

Total Native Households 59
Surveyed Households 56
Sampling Fraction 94 9%
Sample Household Members 155
Estimated Household Members 163 3

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Hou	seholds	Estimated Community Harvest and Take (Expande	ed):
Used	89 3%	Total Number Harvested	31.6
Humled	33 8%	Total Number Struck and Lost	3.2
Harvested	26.8%	Total Number Taken	34.8
Received	89 3%	Number Harvested Per Capita	0.19
Gave Away	26 8%		

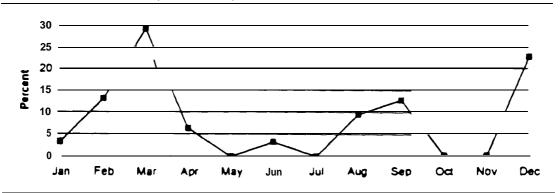
HARBOR SEAL	HARV	ESTBY	SEASO	>~								Ļ	Joknown	
		Feb	Mar	40	May	مد	برو	مه	Seo	Oct	Nov	Dec	Month	Total
REPORTED HAVE	S' MC	, WE B.	دع مسد	~0.¥~	الله وحد	-EUP-MOE	ڼ							
Hervest	•	•	•	•	0	•	٥	2	3	Q	0	7	2	30
Struck and Loss	0	0	C	•	0	0	٥	1	1	0	0	0	٥	3
Total Tame	•	4	9	2	C	1	٥	3	4	0	0	7	2	33
ESTIMATED HARM	EST AND	-	COMMUN	m room	MDED)									
Harvest	1.1	4 2	9.5	• •	00	1.1	0.0	21	3.2	00	0.0	7.4	2.1	31.6
Struck and Loss	0.0	0.0	0.0	, ,	0.0	0.0	۵۵	1.1	1.1	0.0	0.0	0.0	0.0	3.2
Total Taxe	1.1	4.2	9 5	2 '	CO	1 1	00	3.2	4.2	0.0	0.0	7.4	2.1	34 8
ESTIMATED SEASO	DNALLY !	NOLUSTES	HAPVES	T AND TA	AE BY CC	YEM UNITY	(EXPANDE	ED)						
Hervest	1.1	4.5	10.2	11	0.0	• •	00	2 3	34	0.0	00	79		31.6
Struck and Loss	00	00	0 0	• •	0.0	0.0	0.0	1.1	1 1	0.0	0.0	0 0		3.2
Total Taxe	1.1	4 5	102	22	0.0	, ,	0.0	33	4.4	0.0	00	79		34 8
Total Taxe (%)	3.2%	13.0%	29 27	63%	00	32%	00%	95%	12.8%	0.0%	00%	22.7%		100%
Cumulative Take	1.1	5 6	15 8	18 0	18.0	19 1	19 1	22 4	26 9	26 9	26 9	34 8		22.5
Cum Take (%)	3.2%	16.2%	45 5%	51.7%	51 7%	55 0%	55 0%	64 5%	77 3%	77 3%	77 3%	100 0%		

HARBOR SEAL HARVEST BY ACE AND SEX	Pedoned		Estimated		
	By Samore	Percent	By Community	Percent	
	(Unexpanded.		(Expanded)		
Adult Male	6	200%	6 3	20 0%	
Adult Female	7	2 3 3 %	7 4	23 3%	
Adult Unknown Sex	5	16.7%	5 3	167%	
Juvenile Male	s	16 7%	53	167%	
Juvenile Female	2	67%	2 1	6 7%	
Juvenile Unknown Sex	2	67%	21	67%	
Pup Male	0	00%	0 0	00%	
Pup Female	0	00%	0 0	00%	
Pup Unknown \$e ≢	0	00%	0 0	00%	
Male Unknown Age	2	67%	21	6 7%	
Female Unknown Age	0	00%	0 0	00%	
Unknown Sex and Age	1	3 3%	11	33%	
Total	30	1000%	316	1000%	

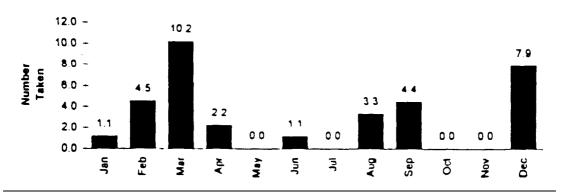
SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lons and Harbor Seals in Alaska, with assistance from the Port Graham Corporation. 1994.

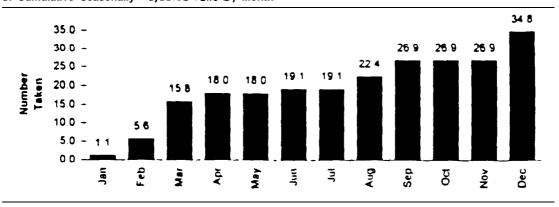
FIGURE 40. HARBOR SEAL (Phoce vituline) TAKE ESTIMATES: PORT GRAHAM, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alasks Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for See Judie and history Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation. 1994.

TABLE 41. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: SELDOVIA, 1993

SAMPLING DESIGN: TWO STRATA

Active O t h e r Total
Total Native Households 5 49 54
Surveyed Households 5 25 30
Sampling Fraction 100.0% 510% 55.6%
Sample Household Members 14 65 79
Estimated Household Members 14 0 127 4 141 4

SEA LION HARVEST AND USE INFORMATION

Percent or Native Households: E - Community Harvest and Take (Expanded)

Used 3.6% Total Number Harvested 0.0 0

Hunted 3.6% Total Number Struck and Lost 0.0 0

Harvested 0.0 % Total Number Taken 0.0 0

Received 3.8% Number Harvested Per Capita 0.00

Gave Away 3.6%

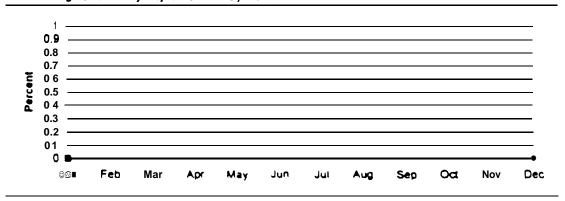
SEA UON HAF	RVEST !	Y SEA	SON									ι	Inknown	
	معنى	Feb	Mar	Apr	May	Jun	بد	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND T	AKE BY S	AMPLED H	+OUSEHC	LDS (UNE	DOPANDEL))							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Taire	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVI	EST AND	TAKE BY C	OMMUNE	TY (EXPA	NDEDI									
Hervest	0.0	0.0	00	00	00	00	00	00	0.0	00	00	00	0.0	00
Struck and Lost	0.0	0.0	0.0	00	00	00	00	00	0.0	0.0	00	00	00	00
Total Take	0.0	0.0	0.0	00	00	00	00	00	0.0	0.0	00	0.0	00	00
ESTIMATED SEASO	NALLY A	DJUSTED	HARVEST	AND TAK	E BY COA	AMUNITY (EXPANDE	.Di						
Harvest	0.0	0.0	00	00	00	00	00	00	0.0	0.0	00	00		00
Struck and Lost	0.0	0.0	00	00	00	00	00	0.0	0.0	00	0.0	00		00
Total Take	0.0	0.0	00	00	00	00	00	00	00	00	00	00		00
Total Take (%)		-	-											
Cumulative Take	0.0	0.0	00	00	00	00	00	00	00	00	00	00		
Cum Take (%)	0.0%	0.0%	00%	00%	00%	0.0%	00	00%	0.0%	0.0%	00%	800		

SEA LION HARVEST BY AGE AND SEX	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0		0.0	
Adult Female	0		0 0	
Adult Unknown Sex	0		0 0	-
Juvenile Ma.e	0	_	0 0	
Juvenile Female	0		0 0	
Juvenile Unknown Sex	0		0 0	-
Pup Male	0		0 0	-
Pup Female	0	_	0 0	-
Pup Unknown Sex	0		0 0	
Male Unknown Age	0	-	0 0	
Female Unknown Age	0	_	0 0	400
Unknown Sex and Age	0		00	
Total	0	-	00	

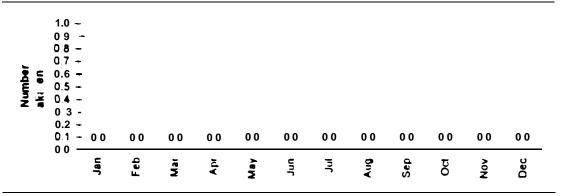
SOURCE

Aleaka Department of Frah and Game. Division of Suberstence Suberstence Study and Monitor System for Sea Lions and Herbor Seats in Aleaka, with assistance from the Seldovia Native Association. 1994.

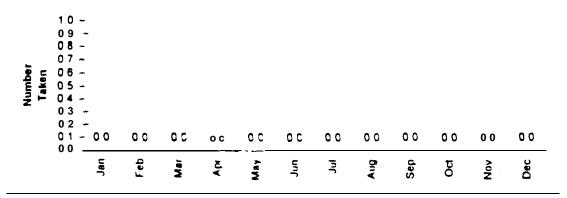
FIGURE 41. SEA LJON (Eurnetopias jubatus) TAKE ESTIMATES: SELDOVIA, 1993



8. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and marbor Seals in Alaska, with assistance from the Seldovia Netive Association. 1994.

TABLE 42. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: SELDOVIA, 1993

SAMPLING DESIGN: TWO STRATA

Active other Total
Total Native Households 5 49 54
Surveyed Households 5 25 30
Sampling Fraction 100 0% 510% 55 6X
Sample Household Members 14 65 79
Estimated Household Members 14 0 127 4 141 4

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households E - e d Community Hervest and Take (Expended)

Used 3 4 6 %

Total Number Hervested 7 9

Hunted 16 3%

Total Number Struck and Lost 4 9

Total Number Taken 12 a

Received 27 3%

Number Hervested Per Capita 0 06

Gave Away 14 6 %

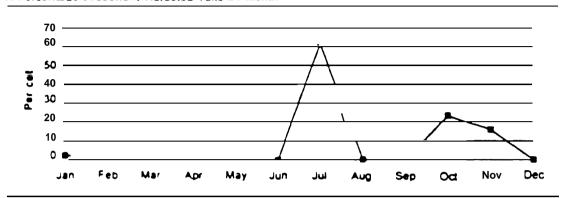
HARBOR SEAL	- nakvi	ESIBI	SEASC)IV								·	INKNOWN	
	مهار	Feb	Mar	Aor	May	~	مد	4.0	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND 1	AKE BY S	AMPLED	HOUSEH	الم	EXPANDE	٥٠							
Harvest	0	0	٥	0	0	C	2	0	0	2	7	٥	0	:
Struck and Lost	0	٥	٥	0	0	٥	2	0	٥	0	1	0	0	3
Total Take	0	0	0	0	С	0	4	٥	0	2	2	0	0	8
ESTIMATED HARVI	EST AND	TAKE BY	COMMUN	MY (EXPA	NDED:									
Hervest	00	00	00	00	00	00	39	00	00	30	10	00	0.0	79
Struck and Lost	00	00	00	00	00	00	39	00	00	00	10	00	0.0	4 9
Total Taxe	00	00	00	00	00	сс	7 8	00	00	3.0	2.0	0.0	0.0	12.8
ESTIMATED SEASO	DNALLY A	DJUSTED	HARVES'	T AND TA	KE BY CO	MMUNITY	(EXPANDE	ED)						
Harvest	0.0	00	00	0.0	0.0	00	39	0.0	0.0	30	1.0	0.0		79
Struck and Lost	0.0	0.0	00	00	9.0	CC	3 9	C Q	0.0	00	10	0.0		4 9
Total Take	0.0	0.0	00	0.0	0.0	2.0	7 8	00	00	30	2.0	0.0		12.8
Total Take (%)	0.0%	0.0%	00	0.0%	c 🗪	000	61 3%	00	0.0%	23 1%	15 6%	0.0%		100%
Curnulative Take	00	00	00	oc	ос	0 0	78	78	7.8	108	128	128		
Cum Take (%)	0.0%	0.0%	00	0.0%	C ON	0.03	61 n	61 3%	61 3%	84 4%	100 0%	100 0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Semon	Percent	By Community	Percent
	(Unexpended		(Expended)	
Adult Male	1	20 0%	10	127%
Adult Female	1	20 Ok	10	127%
Adult Unknown Sex	0	0 0%	0 0	00%
Juvenile Male	1	200%	20	24 9%
Juvenile Female	0	0 🕽 🛰	0 0	00%
Juvenile Unknown Sex	0	0.0%	0 0	00%
Pup Maie	0	0.0%	0 0	00%
Pup Female	0	0.0%	0 0	00%
Pug Unknown Sex	0	0.0%	0 0	0.0%
Maie Unknown Age	0	0.0%	0 0	0.0%
Female Unknown Age	0	0 0%	0 0	00%
Unknown Sex and Age	2	40 0%	3 9	49 7%
Total	5	100 0%	79	1000%

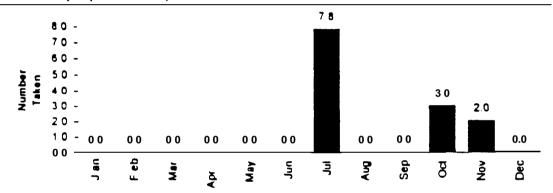
SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lons and Harbor Seats in Alaska, with assistance from the Seldonia Native Association. 1994

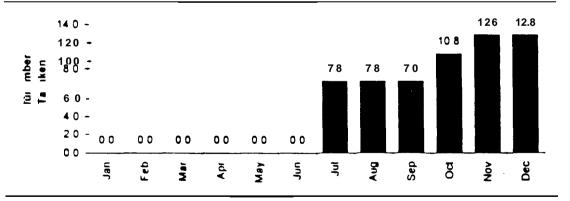
FIGURE 42. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: SELDOVIA, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Junis and Harbor Seats in Alaska, with assistance from the Seldovia Netive Association. 1994.

TABLE U. SEA LION (Eumetopies jubstus) HARVEST AND TAKE ESTIMATES: SEWARD, 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total Total Native Households 11 145 156 Surveyed Households 9 18 27 Sampling Fraction 81 8% 12 4% 17.3% Sample Household Members 34 47 81 **Estimated Household Members** 41 6 378 6 420.2

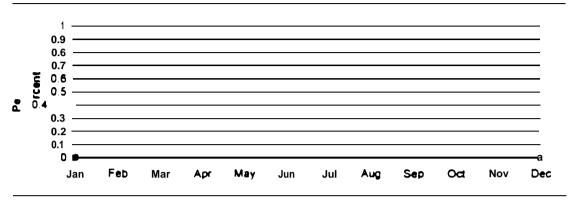
SEA LION HARVEST AND USE INFORMATION

SEA UON HAF	RVEST I	BY SEAS	SON									ι	MINIONIA	
	Jen	Feb	Mar	Apr	May	nu.	ابد	Aug	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HARVES	T AND TA	KE BY SA	MPLED !	+OUSEH0	DUDS (UN	EXPANDE))							
Hervest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVE	EST AND	TAKE BY C	OMMUN	TY (EXPA	NDEDI									
Harvest	00	00	00	00	00	0 0	0 0	0 0	0 0	0.0	0.0	0.0	0.0	0. 0
Struck and Lost	0.0	0. 0	00	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0. 0
Total Taxe	0.0	0. 0	00	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0	0. 0
ESTIMATED SEASO	NALLY A	DJUSTED	HARVES	T AND TA	KE BY CO	MMUNITY	EXPANDE	0)						
Harvest	0. 0	0. 0	00	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0 0		0.0
Struck and Lost	00	00	00	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0.0		0.0
Total Take	00	00	00	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0 0		0.0
Total Take (%)		-												
Cumulative Take	0. 0	0. 0	00	00	00	0 0	0 0	0 0	0 0	0 0	0.0	0 0		
Cum Take (%)	0.0%	0.0%	00%	0.0%	00	00	00	0.0%	00%	0.0%	0.0%	0.0%		

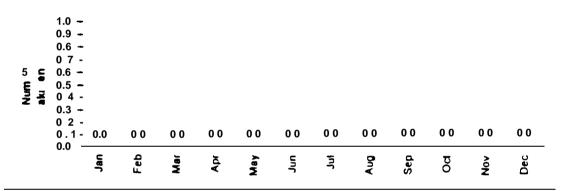
SEA UON HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	-	0 0	-
Adult Female	0		0 0	
Adult Unknown Sex	0		0 0	
Juvenile Male	0	_	0 0	
Juvenile Female	0		0 0	
Juvenile Unknown Sex	0	-	0 0	
Pup Male	0		0 0	
Pup Female	0		0 0	
Pup Unknown Se x	0		0 0	-
Male Unknown Age	0	_	0 0	
Female Unknown Age	0		0 0	
Unknown Sex rna Age	0	_	0 0	
Total	0		0.0	

SOURCE

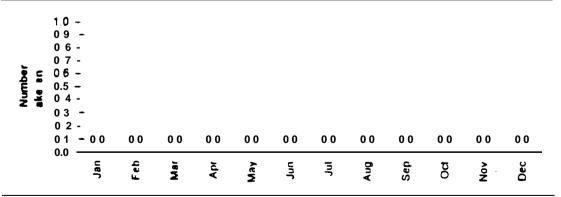
Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Herbor Seals in Alaska: with assistance from the Cutercalt Netwe Trice: 1994.



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Montror System for Sea Lone and Harbor Seals in Alaska, with assistance from the Outercax Native Tripe. 1994.

TABLE 44. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: SEWARD. 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	11	14s	156
Surveyed Households	9	18	27
Sampling Fraction	81 8%	12 4%	17 3%
Sample Household Members	34	47	61
Estimated Household Members	41 6	3766	4202

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Househol	kds	Estimated Community Harvest and Take (Expande	ed)
Used 0.6	6 %	Total Number Harvested	0.0
Hunted 0 6	%	Total Number Struck and Lost	0 0
Harvested 0 0	%	Total Number Taken	0 0
Received 0 6	%	Number Harvested Per Capita	0 00
Gave Amy 0	0%		

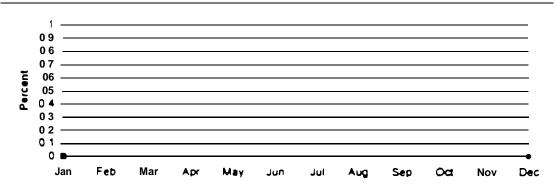
HARBOR SEAL	. HARV	est by	SEASO	N								Ĺ	inknown	
	معر	Feb	Mar	Apr	May	Jun	اماق	وبه	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND 1	AKE BY S	AMPLED !	OUSEHO	CLOS (UNE	DOPANDED))							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	C
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARV	EST AND	TM BY C	COMMUNE	W IEXPA	HDEDI									
Harvest	0.0	0.0	00	00	00	00	00	00	00	00	00	00	0.0	0.0
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	0.0	0.0	0.0
Total Take	00	0.0	00	00	00	00	00	00	00	00	00	00	0.0	0 0
ESTIMATED SEASO	ONALLY A	DJUSTED	HARVEST	AND TAK	E BY COA	MUNITY	EXPANDE	ום						
Harvest	0.0	0.0	00	00	00	00	00	00	00	00	00	00		00
Struck and Lost	0.0	00	00	00	00	00	00	00	00	00	00	00		00
Tow Take	00	00	00	00	00	00	00	00	00	00	00	00		00
Total Take (%)			_	_										
Cumulative Take	0.0	00	00	00	00	00	00	00	00	00	00	00		
cum Take (%)	0.0%	0.0%	0.0%	0.0%	00%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

HARBOR SEA L HARVEST BY AGE AND SEX	Reported By Sample	Percent	Estimated By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0		0 0	 -
Adult Female	0		0 0	
Adult Unknown Sex	0	-	0 0	_
Juvenile Male	0		0 0	
Juvenile Female	0		0 0	
Juvenile Unknown Sex	0		0 0	
Pup Male	0		0 0	
Pup Female	0		0 0	
Pup Unknown Sex	0		0 0	
Male Unknown Age	0		0 0	
Female Unknown Age	0		0 0	
Unknown Sex and Age	0		00	-
Total	0		00	

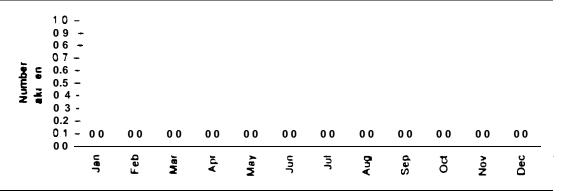
SOURCE

Alaska Department of Fish and Game, Division of Subarstence, Subarstence Study, and Monitor System for Sea Lions and Hisrbor Seals in Alaska, with assistance from the Outercalt Netive Tribe, 1994.

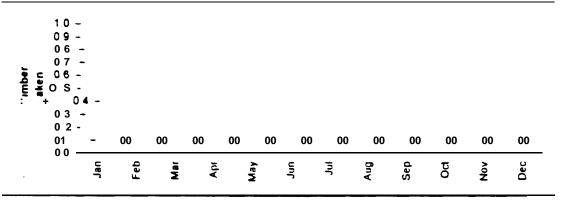
FIGURE 44. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: SEWARD, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Outekcak Native Tribe. 1994.

TABLE 45. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: TATITLEK, 1983

SAMPLING DESIGN: CENSUS

Total Native Households 29
Surveyed Households 28
Sampling Fraction 96 6%
Sample Household Members 92
Estimated Household Members 95 3

SEA UON HARVEST AND USE INF ORMATION

Percent Of Native Households	Estimated Community Harvest and Two (Expande	d):
used 107%	Total Number Harvested	41
Hunted 25 0 %	Total Number Struck and Lost	10
Harvested 7 1%	Total Number Taken	s.2
Received 7 1%	Number Harvested Per Capita	0.04
Gave Amy 38%		

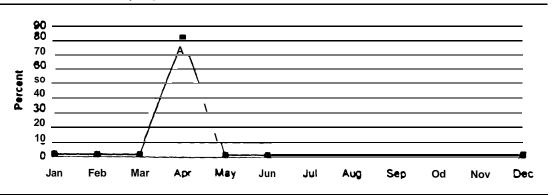
SEA UON HAR	EVEST &	Y SEA	SON									L	Inknown	
	Jen	Feb	Mar	Apr	May	مبد	ابد	Aug	Seo	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND 1	AKE BY S	AMPLED	HOUSEH	OLDS IUN	EXPANDE.	O)							
Harvest	0	0	0	١	0	0	0	0	0	0	0	0	3	4
Struck and Loss	0	0	0	0	0	0	0	0	0	0	٥	٥	1	1
Total Take	0	0	0	1	0	0	0	0	0	0	0	0	4	5
ESTIMATED HARVE	ST AND	TAKE BY	COMMUN	ITY (EXPA	NDEDI									
Harvest	0 0	0 0	0 0	10	0 0	0 0	0 0	0 0	00	00	0.0	00	3.1	4 1
Struck and Loss	0 0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	00	00	0.0	0.0	1.0	1.0
Total Take	0.0	0.0	0 0	1 0	0 0	0 0	0 0	0 0	00	00	00	0.0	4.1	5 2
ESTIMATED SEASO	MALLY A	DJUSTED	HARVES	T AND TA	KE BY CO	MMUNITY	(ECPANOE	(D)						
Harvest	0.0	0.0	0 0	4.1	0 0	0 0	0 0	0 0	00	0 0	0.0	00		4.1
Struck and Lost	0 1	0.1	0 1	0 1	0 1	0 1	0.1	0 1	0.1	0.1	0.1	0.1		1.0
Total Take	0 1	0 1	Q t	4 2	01	0.1	0.1	0.1	01	0 1	0.1	01		5.2
Total Take (%)	1.7%	1.7%	i n	81.7%	1.7%	1.7%	1.7%	17%	17%	i n	i n	1.7%		100%
Cumulative Take	0.1	0.2	0.3	4 5	46	4.7	4.7	4.8	4.9	50	5 1	5.2		
Cum Take R I	1.7%	3.38	50%	86 7%	88 3%	90.0%	91 7%	93 3%	95.0%	96.7%	98.3%	100.0%		

SEA LION HARVEST BY AGE AND SEX	Reported	•	Estimated	
	By Sampre	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	0	0 0 %	0 0	00%
Adult Female	0	00%	0 0	00%
Adult Unknown Sex	0	0 0%	0 0	00%
Juvenile Male	1	250%	10	250%
Juvenile Female	0	00%	0 0	00%
Juvenile Unknown Sex	0	0 0%	0 0	00%
Pup Maie	0	00%	0 0	00%
Pup Female	0	0 0%	0 0	00%
Pup Unknown Sex	0	00%	0 0	00%
Male Unknown Age	0	00%	0 0	0.0%
Female Unknown Age	0	00%	0 0	0.0%
Unknown Sex and Age	3	75 0%	3 1	75.0%
Total	4	100 0%	4.1	100.0%

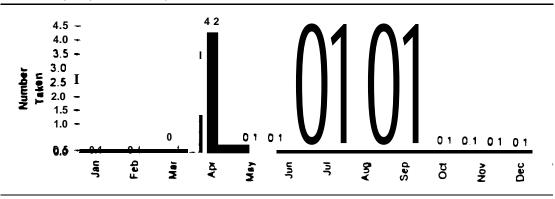
SOURCE.

Alaska Department of Fran and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tatribek IRA Council. 1994.

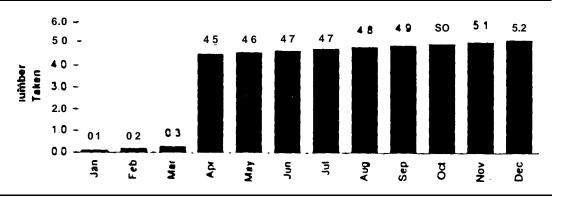
FIGURE 45. SEA LION (Eumetopies jubatus) TAKE ESTIMATES: TATITLEK, 1993



8. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fran and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Sears in Alaska, with assistance from the Tatitlek IRA Council. 1994.

TABLE 46. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: TATITLEK, 1993

SAMPLING DESIGN CENSUS

SOURCE

Total Native Households 29
Surveyed Households 28
Sampling Fraction 96 6%
Sample Household Members 92
Estimated Household Members 95 3

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Name Households

Used 92 %

Hunted 42 %

Harvested 32 1%

Received 89 3%

Gave Away 57 1%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 106.7

Total Number Struck and Lost 14.5

Total Number Taken 123.2

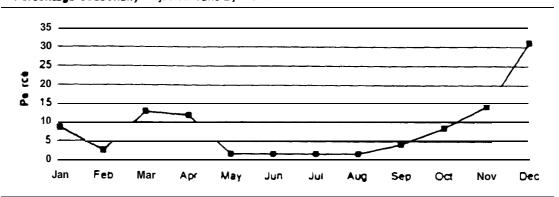
Number Harvested Per Capita 1.14

HARBOR SEAL	HARV	ES 78	YSEASC)N								L	Inknown	
		Feb	Liker	Acr	May	~	ابد	4	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HAPVE	s, mc	'ME BY	وعالمسمح	r-OUSEr-	OLDS (UA	EUNIOE	וס							
Hervest	יכ	3	•	14	2	2	2	2	5	10	14	37	0	105
Struct and Loss	9	0		0	0	0	0	0	0	0	1	0	9	14
Total Tare	'0	3	•	14	2	2	2	2	5	10	15	37	9	119
ESTIMATED HAPM	EST 440	TAKE BY	COMMUN	~ (DO)	MDED:									
Hervest	104	3 1	4 1	145	2 1	2 1	2 1	2 1	5.2	104	14.5	38.3	0.0	108.7
Struck and Loss	0 0	00	4.1	СО	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0 0	9.3	14 5
Total Taxe	104	3 1	8.3	145	2 1	2 1	2 1	2 1	5 2	10.4	155	38.3	9 3	123.2
ESTIMATED SEASO	MALLY !	NOUSTE	DHARVES	T AND TA	KE BY CO	MMUNITY	(EXPANDI	ED)						
Hervest	104	3 1	4.1	145	2 ′	2 ′	2 t	2 1	5 2	10.4	145	38.3		106 7
Struck and Loss	0 0	60	11 6	0 0	0.0	0 C	0 0	0 0	0 0	0 0	2.9	0 0		14 5
Total Take	104	3 1	′5 ?	145	2 ′	2 ′	2 ′	2 1	5 2	10 4	174	38 3		123.2
Total Take R I	84%	2 5	12	11.5%	• •	1.7%	1.7%	1.7%	4.2%	84%	14 1%	31 1%		100%
Cumulative Take	10.4	13	5 292	437	45 8	47.8	49 9	5 2 0	57 2	67 5	84 9	123 2		
cum Take (%)	8 4%	10.9%	23 7%	25.5%	37 1%	78.80	40.5%	42 2	46 4%	54.8%	68 9%	100 0%		

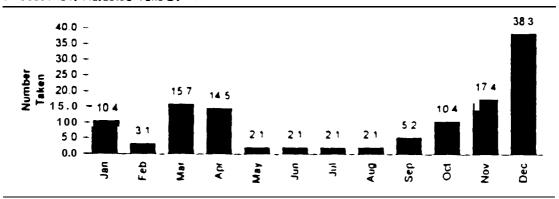
HARBOR SEAL HARVEST BY AGE AND SW	Pedoned		Estimated	
	By Sample	Percent	By Community	Percent
	(Unespended.		(Expanded)	
Adult Male	21	200%	21 a	200%
Adult Female	3	2 9%	3 1	29%
Adult Unknown Sex	34	324%	352	32 4%
Juvenile Male	4	3 8%	4.1	38%
Juvenile Female	1	10%	10	1 0%
Juvenile Unknown Sex	a	76%	a 3	16%
Pup Male	0	0 0 %	00	0 0%
Pup Female	0	0 0 %	00	00%
Pup Unknown Sex	0	0 0 %	00	00%
Male Unknown Age	0	0 0 %	00	00%
Female Unknown Age	0	0 0 %	00	00%
Unknown Sex rna Age	34	32 4%	35 2	32 4%
Total	105	1000%	106 7	100 1%

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seas in Alaska, with assistance from the Tattlek IRA Council. 1994.

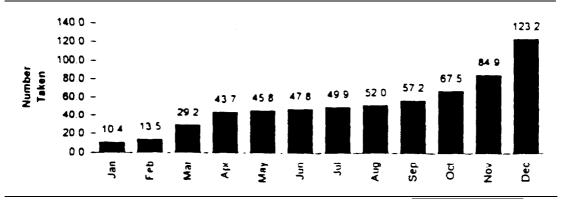
FIGURE 46. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: TATITLEK, 1993



0. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fran and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea John and Harbor Sears in Alaska, with assistance from the Tatritek IRA Council. 1994.

TAME 47. SEA LION (Eumetopies jubetus) HARVEST AND TAKE ESTIMATES: VALDEZ, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households
Surveyed Households
Sampling Fraction 100.0%
Sample Household Members 28
Estimated Household Members 28.0

SEA LION HARVEST AND USE INFORMATION

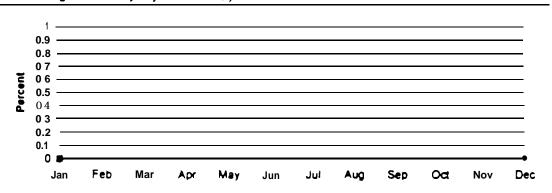
Percent Of Sample Households:	Estimated Community Harvest and Take (Expande	id).
Used 0.0%	Total Number Harvested	0 0
Hunted 0.0%	Total Number Struck and Lost _	0 0
Harvested 0.0%	Total Number Taken	00
Received 0 0 %	Number Harvested Per Capita	WA
Gave Away 0.0%		

SEA LION HAI	KVES1	D7 SEA	SON									U	inimown	
	Jan	Feb	Mer	Aor	May	Jun	ابد	Aug	Sec	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND	TAKE BY S	AMPLED !	HOUSEH	OLDS (UN	EPANDE	0)							
Hervest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARM	EST AND	TAKE BY	COMMUN	TY (EXP	MDEDI									
Harvest	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0	0.0	0 (
Struck and Lost	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0
Tow Take	0.0	0.0	0 0	0 0	0 0	0 0	0.0	0 0	0 0	0 0	0.0	0 0	0.0	0 0
ESTIMATED SEASO	DNALLY A	VOJUSTED	HARVES!	AND TA	KE BY CO	MMUNITY	(EXPANDE	D)						
Harvest	0.0	0.0	0 0	0 0	0 0	0 0	0.0	0 0	0.0	0 0	0.0	0 0		0 (
Struck and Lost	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0.0	0.0	0.0	0.0	0 0		0 (
Total Take	0.0	0.0	0 0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		0 0
Total Take (%)	_	-	_	_	_	_	-	-	-	_	_	_		
Cumulative Take	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	00		
Cum Take (%)	0.0%	00%	00	00%	0.0%	0.0%	00%	0.0%	00	0.0%	0.0%	0.0%		

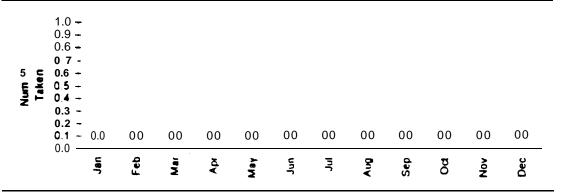
SEA LION HARVEST BY AGE AND SE	X Recorded		Estimated		
	By Sample	Percent	By Community	Percent	
	(Unexpended)		(Expanded)		
Adult Male	0		00		
Mull Female	0	-	00		
Adult Unknown Se	e x 0	_	00	_	
Juvenile Male	0	_	00		
Juvenile Female	0		. 00	-	
Juvenile Unknown	Sex 0		00		
Pup Male	0	-	00		
Pup Female	0		0.0		
Pup Unknown Sex	. 0		0.0		
Male Unknown Ag	• 0		0.0	-	
Female Unknown	Age 0	-	00	engliss	
Unknown Sex and	Age 0		00		
Total	0		0.0		

SOURCE

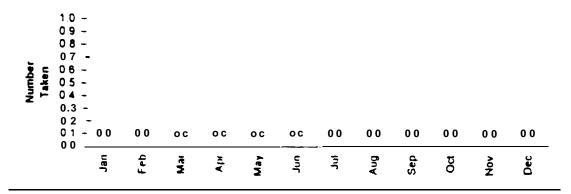
Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for See Lions and Harbor Seets in Alaska, with assistance from the Valdez Native Association. 1994.



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Valdez Native Association. 1994.

TABLE U. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: VALDEZ, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 6
Surveyed Households 6
Sampling Fraction 100 0%
Sample Household Members 28
Estimated Household Members 28 0

HARBOR SEAL HARVEST AND USE INFORMATION

Percent or Sample Households
Used 66.7%
Estimated Community Harvest and Take (Expanded):
Total Number Harvested 21.0
Hunted 68.7%
Total Number Struck and Lost 4.0
Total Number Taken 25.0
Received 33.3%
Number Harvested Per Capita N/A
Gave Away 33.3%

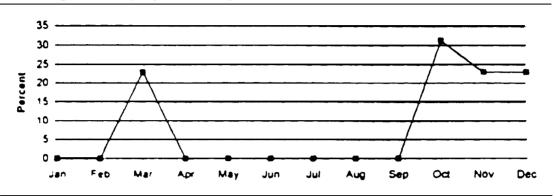
HARBOR SEA	L HARV	EST BY	' SEASC)N								u	nknown	
	Jan	Feb	Mar	Apr	May			Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND	AKE BY	SAMPLED	HOUSEHO	LOS IUNE	DP4NDED	,							
Hervest	0	0	3	0	0	0	C	0	0	2	3	3	10	21
Struck and Lost	0	0	0	0	0	0	0	0	0	2	0	0	2	4
Total Take	0	0	3	0	0	0	0	0	0	4	3	3	12	25
ESTIMATED HARV	EST AND	TAKE BY	COMMUNI	TY (EXPAN	(C3Gs									
Harvest	0 0	0 0	3 0	00	ос	0 0	0 0	00	00	2 0	3 0	3.0	10.0	21.0
Struck and Lost	0 0	0 0	0 0	0 0	0 0	0 C	0 0	0 0	0 0	2 0	00	00	2.0	4.0
Total Take	00	00	30	00	00	0 0	0 0	0 0	0 0	4 0	3 0	3.0	12.0	25.0
ESTIMATE (SEAS)	ONALLY A	AQUISTE	HARVEST	AND TAK	E BY COA	AMUNITY (DOWNOE	.Dı						
Hervest	00	00	57	00	ОС	0 C	0 0	0 0	0 0	3.8	57	5 7		2 1 0
Struck and Loss	00	00	00	00	00	0 0	0 0	0 0	0 0	4 0	0 0	0 0		4.0
Total Take	0 0	0 0	5 7	00	03	0 C	0.0	0 0	0 0	78	57	57		25.0
Total Take (%)	800	0.0%	22 9%	00	0.0%	00%	008	0.0%	008	31 3% 2	2 9	8 22 91		100%
Cumulative Take	0.0	00	5 7	5 7	5 7	5 7	5 7	5 7	5 7	13.5	19.3	25.0		
cum Take (%)	0.0%	0.0%	22 9%	22 9%	2298	22 9%	22 9%	22 9%	22 9%	54 2%	77 1%	100 0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported	E m -
	& h - u - Percent	By Community Percent
	(Une spanded)	(Expanded)
Mull Male	3 14 3%	30 143%
Adult Female	a 38 1%	80 381%
Adult Unknown Sex	1 0 47 6%	100 476%
Juvenile Male	0 00%	00 00%
Juvenile Female	0 00%	00 00%
Juvenile Unknown Sex	C 00%	00 00%
Pup Maie	0 00%	00 00%
Pup Female	0 0 ox	00 00%
Pup Unknown Sex	0 00%	00 00%
Male Unknown Age	0 00%	00 00%
Female Unknown Age	0 00%	0000%
Unknown Sex and Age	0 00%	00 00%
Total	21 1000%	210 1000%

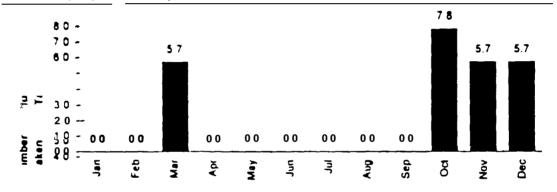
SOURCE

Alasks Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Herbor Seats in Alaska, with assistance from the Valdez Native Association. 1994.

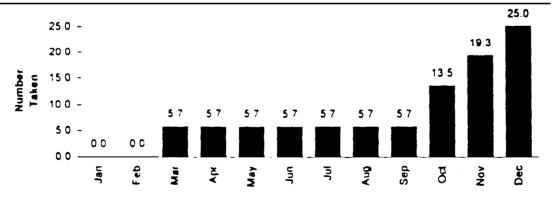
FIGURE 48. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: VALDEZ, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Valdez Native Association. 1994.



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UPPER KENAI-COOK INLET

TABLE 48. SEA LION (Eumetopias jubetus) HARVEST AND TAKE ESTIMATES: ANCHORAGE, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 40 Surveyed Households 36 Sampling Fraction 90 0 % Sample Household Members 134 Estimated Household Members 148 9

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households Estimated Community Harvest and Take (Expanded): used 50.0% Total Number Harvested Total Number Struck and Lost ____ 3<u>.3</u> Hunted 19 4% Harvested 11 1% Total Number Taken 11.1 Received 5 0 0 % Number Harvested Per Capita **Gave** Away 36 1%

SEA LION HAI	RVEST	BY SEA	SON									Un	Known	
	معز	Feb	Mar	Apr	May	,ken	املا	Ng	Sep	С	n	No	v Dec	Month
REPORTED HARM	EST AND	TAKE BY S	AMPLED	HOUSEHO	XLDS (UNE	XPANDE	O)							
Hervest	2	1	0	2	0	0	0	1	0	1	0	0	0	7
Struck and Lost	0	2	0	0	0	0	0	0	1	0	0	0	0	3
Total Take	2	3	0	2	0	0	0	1	1	1	0	0	0	10
ESTIMATED HARV	EST AND	TAKE BY	COMMUN	ITY (EXPA)	NDED)									
Harvest	22	11	0.0	22	0 0	00	0 0	1	1 00	1	1 0.0	0.0	0.0	7.8
Struck and Lost	0.0	22	00	00	00	00	0 0	00	1	1 00	0.0	0.0	0 0	3.3
Total Take	22	3.3	00	2.2	00	00	0 0	1	1 1	1 1	1 00	0 0	0.0	111
ESTIMATED SEAS	ONALLY	NOUSTED	HARVES	KAT DINAT	E BY COM	MUNITY	(EXPANDE	.Di						
Harvest	2.2	1	1	00 2 2	2 00	00	0 0	3	1 00	1	1 00	0 0		7.8
Struck and Lost	0.0	2.2	00	00	00	00	0 0	00	1	₹ 00	00	0 0		3 3
Total Taire	22	33	00	22	00	00	0 0	1	1 1	1 1 1	0 0	0 0		11 1
Tow Take (%)	8.0%	30.0%	0.0%	20.0%	0.0%	00	0.0%	10.0%	10.0%	10.0%	0.0%	0.0%		100%
Cumulative Take	22	5.6	5.6	78	78	78	78	8 9	100	11 1	11 1	111		
cum Take (%)	20.0%	50.0%	50.0%	70.0%	70.0%	70.0%	70.0%	80 0%	90 0%	100 0%	100 0%	100 0%		

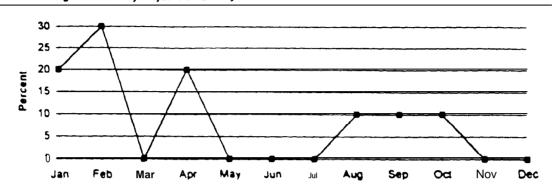
Total

SEA LION HARVEST BY AGE AND SW	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	28 6%	2.2	286%
Adult Female	2	28 6%	2.2	28 6%
Adult Unknown Sex	1	1 4 3%	11	143%
Juvenile Male	1	1 4 3%	11	143%
Juventk Female	0	00%	0 0	00%
Juvenile Unknown Sex	0	00%	0 0	00%
Pup Male	0	0.0%	0 0	00%
Puo Female	0	0.0%	0 0	00%
Pup Unknown Sex	0	0.0%	0 0	00%
Mole Unknown Age	1	1 4 3%	11	143%
Female Unknown Age	0	00%	0 0	00%
Unknown Sex and Age	0	0.0%	0 0	00%
Total	7	1000%	70	100.0%

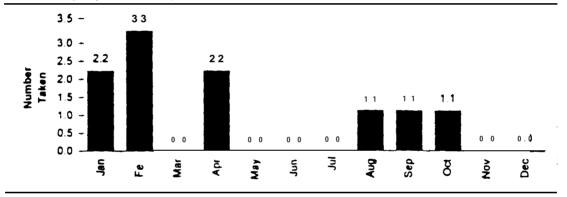
SOURCE Alasks Department of Fish and Game. Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from

the Cook Inlet Tribal Council and Alaska Federation of Natives, 1994

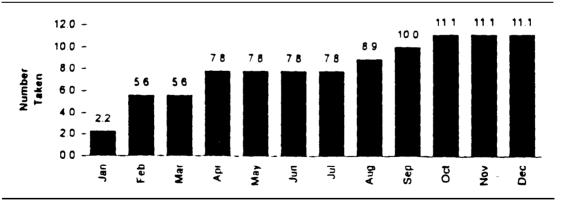
FIGURE 49. SEA LION (Eumetopias jubetus) TAKE ESTIMATES: ANCHORAGE. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for See Lons and Harbor Seas in Alaska, with assistance from the Cook Inlet Tribal Council and Alaska Federation of Natives. 1994.

TABLE 50. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: ANCHORAGE, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 40
Surveyed Households 38
Sampling Fraction 90 0%
Sample Household Members 134
Estimated Household Members 148 9

HARBOR SEAL HARVEST AND USE INFORMATION

Percent of Sample Households:

Used 75 0%

Hunted 27 0%

Harvested 19 4 %

Received 75 0 %

Gave Away 55 6%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 2 4 4

Total Number Struck and L o s 5 6

Total Number Taken 30.0

Number Harvested Per Capita WA

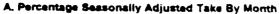
harbor Sea	L HARV	HARVEST BY SEASON										Unknown			
	معل	Feb	Mar	Apr	May	مد	ابد	Aug	Sep	Oct	Nov	Dec	Month	Tota	
REPORTED HARV	EST AND	TAKE BY S	SAMPLED	HOUSEH	OLDS IUN	EDPANDE	Di								
Hervest	1	0	4	6	2	1	2	4	1	1	0	0	0	22	
Struck and Lost	1	0	1	0	0	0	0	0	0	0	0	0	3	;	
Total Take	2	0	5	6	2	1	2	4	1	1	0	0	3	2	
ESTIMATED HARV	EST AND	TAKE BY	COMMUN	ITY (EXP	MOEDI										
Harvest	11	0.0	4.4	67	2.2	1 1	22	' 4	1	3	11 0.	0.0	0.0	24	
Struck and Loss	11	00	1	1 0	0 00	00	0 0	00	00	0.0	0.0	0.0	3.3	5.0	
Total Take	22	0.0	56 6	57 2	22	1 1	2.2	44	1	1.1	0.0	0.0	33	30 (
ESTIMATED SEAS	ONALLY A	ADJUSTE	HARVES	T AND TA	KE BY CO	MMUNITY	(E)(PANDE	D)							
Hervest	1.1	00	44	67	2.2	1.1	22	44	1	11	0.0	0.0		24	
Struck and Lost	2.8	00	26	00	oc	00	00	00	00	a0	0.0	0.0		5.0	
Total Take	3.9	0.0	7.2	67	2.2	i I	22	44	1.1	11	0.0	0.0		30.1	
Total Take (%)	13.08	0.08	24 1%	27	74%	37%	7.4%	14.8%	3n	3n	0.08	0.08		1001	
Cumulative Take	3.9	3.9	11	178	200	21 1	23 3	27 8	28 9	30.0	30.0	30.0			
Cum Take (%)	13.0%	13.0%	37 0%	59 3%	66 7%	70.4%	77 8%	9268	96.3%	100.0%	100.0%	100.0%			

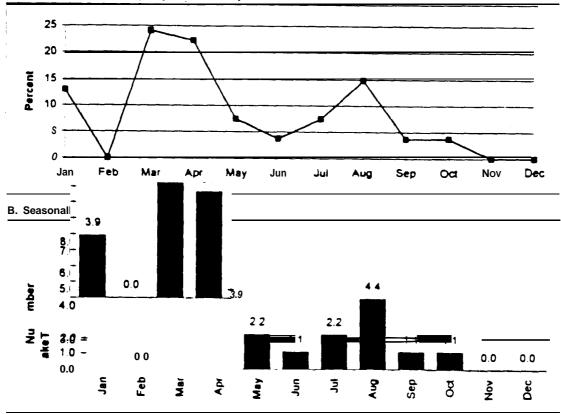
HARBOR SEAL HAR	VEST BY	AGE AND SEX	_	ported earne	0	Estimated	
			•	-	Percent		ercent
			(Unexp	enced)		(Expanded)	
	Adult Ma	le		5	227%	5622	7 %
	Adult	Femak	=	0	00%	000	0 %
	Mull	Unknown	Sex	3	136%	33 13	36%
	Juvenile	Mai	e	1	45%	11 4	5%
	Juvenile	Fema	ie	1	4 5 x	11 4	5%
	Juvenile	Unknown	Sex	0	00%	0.0 0	.0%
	Pup	Male		0	00%	0 0	0.0%
	Pup	Female	,	0	00%	0.0 0	0 %
	Pup	Unknown	Sex	0	00%	0.0 0	0%
	Male	Unknown	Age	0	00%	0 0 0	0 %
	Female	Ageno:	wn	0	00%	000	0 %
	Unknown	Sex and Age		12	545%	13.3 5 4	4 5%
	Total	_		22	100 0%	244 100	0.0%

SOURCE Alaska Department of Fran and Game. Division of Subaistence. Subaistence Study and Montor System for Sea Lions and Harbor Seate in Alaska, with assistance from

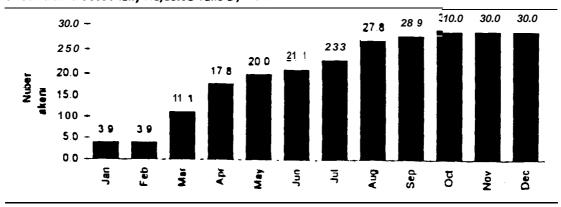
the Cook Inlet Tribal Council and Alaska Federation of Natives, 1994.

FIGURE 50. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: ANCHORAGE. 1993





C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence Subsistence Study and Monitor System for Saa Lions and Harbor Sears in Alaska, with assistance from the Cook Intel Tribal Council and Alaska Federation of Natives. 1994.

TABLE 51. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES; HOMER, 1983

SAMPLING DESIGN CHAIN REFERRAL

Total Sample Households 12
Surveyed Households 5
Sampling Fraction 41 7%
Sample Household Members 11
Estimated Household Members 26 4

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households

Used 0.0%

Hunted 0.0%

Total Number Harvested 0.0

Horvested 0.0%

Total Number Struck and Lost 0.0

Harvested 0.0%

Total Number Taken 0.0

Received 0.0%

Number Harvested Per Capita N/A

Gave Away 0.0%

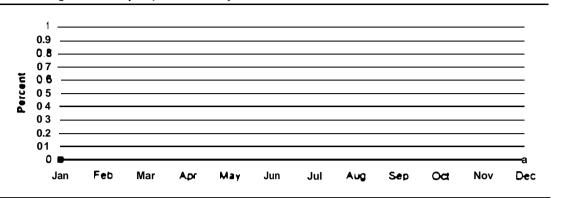
SEA LION HAS	VEST.	8 ¥ SEA	SON									ι	Inknown	
		Fee	-	Nor	May	مد	مد	~0	Sep	Oct	Nov	Dec	Month	Total
REPORTED HAPM	ES' NC	'ME EN	morto.	~ 0∪5E~<	DLDS NA	EDD MOE	.Di							
Hendet	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struct and Loss	0	0	0	С	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARV	EST AND	TAKE BY	COMMUN	TY (EXPA	NDEDI									
Hervest	00	00	00	00	00	00	00	00	00	00	00	00	0.0	0.0
Struct and Loss	00	00	00	00	00	00	00	00	00	00	0.0	00	0.0	0.0
Total Take	00	00	0 C	co	00	00	00	00	00	00	0.0	0.0	0.0	00
ESTIMATED SEASO	DNALLY A	QUUSTE	HAPVES"	MOTA	Œ BY CO	MAUNTY	(EXPANDE	ED)						
Harvest	00	00	ос	0 0	00	00	00	00	00	00	0.0	0.0		00
Struck and Lost	co	00	ОС	00	00	00	00	00	00	00	0.0	0 0		00
Total Taxe	00	00	00	00	00	00	ОС	00	00	00	00	00		00
Total Taxe RI														
Cumulative Take	00	00	00	00	00	00	00	00	00	00	00	00		
Cum Take (%)	0.0%	0.0%	00	0.0%	00	00	٥٥٠	00%	00	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX	Recorded		Estimated	
	By Samore	Percent	By Community	Percent
	(Unespanded)		(Expanded)	
Adult Male	0		00	
Adult Female	0		00	
Adult Unknown Sex	0		00	-
Juvenile Male	0	-	00	
Juvenile Female	0	_	00	
Juvenile Unknown Sex	0	_	00	-
PUP Male	0	-	00	-
Pup Female	0	-	00	
Pup Unknown Sex	0	_	00	_
Male Unknown Age	0		00	
Female Unknown Age	0	_	00	_
Unknown Sex ● nd Age	Ō	_	00	
Total	0		00	
10(8)	U		00	

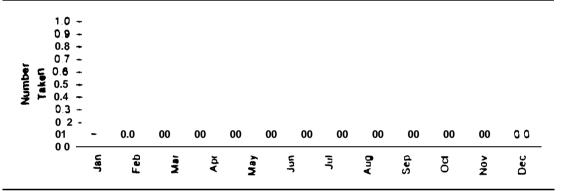
SOURCE

Alaska Department of Fish and Game. Division of Subarstence. Subarstence Study and Monitor System for Sea Lione and Harbor Seats in Alaska. 1994.

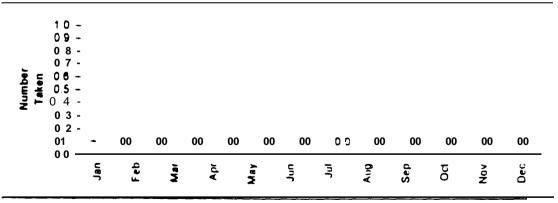
FIGURE 51. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: HOMER, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lons and marbor Seals in Alaska. 1994.

TABLE 62. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: HOMER, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households
Surveyed Households
Sampling Fraction 41 7%
Sample Household Members
Estimated Household Members 26 4

HARBOR SEAL HARVEST AND USE INFORMATION

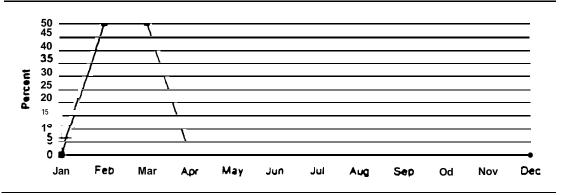
Percent Of Sample Households:	Estimated Community Harvest and Take (Expande	ed):
used 80.0%	Total Number Harvested	4 6
Hunted 2 0 0 %	Total Number Struck and Lost	0 0
Harvested 2 0 0 %	Total Number Taken	48
Received 60.0%	Number Harvested Per Capita	N/A
Gave Away 40 0%		

HARBOR SEAL	L HAR	EST B	Y SEAS	ON								L	Inknown	
	Jan	Feb	Mar	Apr	May	ميد	ابىد	Aug	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND	TAKE BY	SAMPLED	HOUSE	OLDS (U	NEPANDE	D 1							
Harvest	0	1	1	0	0	0	0	0	0	0	0	0	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	1	1	0	0	0	0	0	0	0	0	0	0	2
ESTIMATED HAR	NESTAN	DTAKEBY	COMMU	NITY (EXP.	ANDED)									
Hervest	0 0	24	24	00	0 0	0 0	0 0	0 0	o n	0 0	0.0	0.0	0.0	4
Struck and Lost	0.0	0.0	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0
Total Take	0.0	24	24	00	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0 0	0.0	4 8
ESTIMATED SEASO	DNALLY A	WUSTE	HARVES	T AND T	KE BY C	MMUNIT	(E)PANO	ED)						
Harvest	0.0	24	24	00	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0.0		4 (
Struck and Loss	0 0	0. 0	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0		0.0
Total Take	0.0	24	24	00	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0 0		4 8
Total Take (%)	0.0%	50.0%	50 0%	0.0%	000	0.0%	0.0%	0.0%	0 0 8	0.08	0.0%	00%		1001
Cumulative Take	0.0	24	48	48	48	48	48	48	4 8	4.8	4 d	4.8		
Cum Take (%)	0.0%	50.0%	100.0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%		

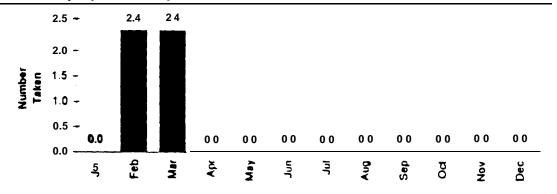
HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Esomated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	00%	0 0	0 0 %
Adult Female	1	50 0%	2 4	500%
Adult Unknown Sex	0	0.0%	0 0	00%
Juvenile Male	0	00%	0 0	0.0%
Juvenile Female	0	00%	0 0	0.0%
Juvenile Unknown Sex	0	0.0%	0 0	0.0%
Pup Male	0	00%	0 0	00%
Pup Female	0	0 0%	0 0	0.0%
Pup Unknown Sex	0	00%	0 0	00%
Male Unknown Age	0	00%	0 0	00%
Female Unknown Age	0	00%	0 0	0.0%
Unknown Sex and Age	1	50 0%	24	50.0%
Total	2	100 0%	4.8	100.0%

SOURCE. Alasks Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lione and Harbor Seats in Alasks. 1994.

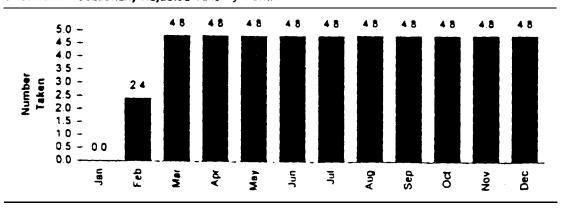
FIGURE 52. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: HOMER. 1993



B. Seasonally Adjusted Take By Month



C. Cumulrtivr Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Study and Monitor System for Sea Lione and Harbor Seas in Alaska. 1994.

TABLE 53. SEA LION (Eumetopias jubetus) HARVEST AND TAKE ESTIMATES: KENAI. 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 2
Surveyed Households 2
Sampling Fraction 100 0%
Sample Household Members 6
Estimated Household Members 6 0

SEA LION HARVEST AND USE INFORMATION

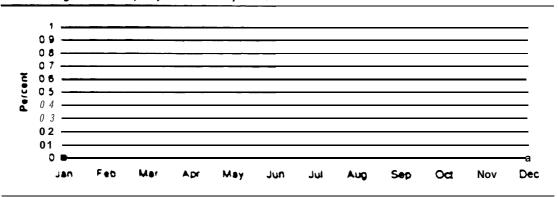
Percent Of Sample Households E Community Harvest and Take (Expanded): used 00% Total Number Harvested 0 0 Humted 0 0 % Total Number Struck and Lost 0 0 Harvested 0 0 % Total Number Taken 0 0 Received 0.0% N/A Number Harvested Per Capital Gave Away 00%

SEA LJON HA	RVEST	BY SEA	SON									·	Inknown	
	Jen	Feb	Mar	Apr	May	مرز	املا	Aug	See	Oct	Nov	Dec	Month	Tota
REPORTED HARM	EST AND T	AXCE 8-f	SAMPLED	HOUSEH	OLDS IUN	ECP ANDE	Di .							
Hervest	0	0	0	0	С	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	C	0	0	0	0	0	0	0	0
Total Taire	0	0	0	0	0	C	0	0	0	0	0	0	0	0
ESTIMATED HARV	EST AND	TAKE BY	COMMUN	TY (E)(PA	NDED.									
Harvest	0 0	0.0	0 0	0 0	ос	0 C	0 3	0 0	0 0	0 0	0 0	0.0	0.0	0 0
Struck and Lost	0 0	0 0	0 0	0 0	0 C	0 3	0.5	0 0	0 0	0.0	0 0	0.0	0.0	0 0
Total Take	0 0	0 0	0 0	0 0	0 0	0 0	٥٥	0 0	0 0	0 0	0 0	0.0	0.0	0.0
ESTIMATED SEAS	ONALLY A	D USTED	HARVEST	AND TA	E BY CO	MMUNITY	EXPANDE	ים						
Hervest	0.0	0 0	0 0	0 0	0 0	0 0	СО	СО	0 0	0 0	0 0	0.0		0 0
Struck and Lost	0 0	0 0	0 0	0 0	0 C	0 0	СС	0 0	0 0	0 0	0 0	0 0		0 0
Total Take Total Take (%)	0 0	0 0	0 0	0 0	0 C	0 0	0 0	0 0	0 C	0 0	0 0	0 0		0 (
Cumulative Take	0.0	0 0	0 0	00	00	ОC	00	00	٥٥	c c	0.0	0.0		
Cum Take (%)	00%	0.0%	0 0 8	00	000	c co	0.0%	00	0.0%	00	0.0%	0.0%		

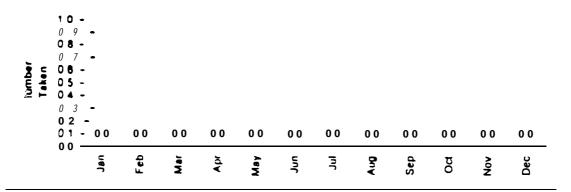
SEA LION HARVEST BY AGE AND SEX	Recorded		Estimated	
	By Sampre	Percer	By Community	Percent
	(Unexpanded		(Expanded)	
Adult Male	0		00	-
Adult Female	0		0 0	-
Adult Unknown Sex	0	_	0 0	
Juvenile Male	0	-	0 0	-
Juvenile Female	0	-	0 0	-
Juvenile Unknown Sex	0		0 0	
Pup Maie	0	-	0 0	***
Pup Female	0	-	0 0	
Pup Unknown Sex	0	-	0 0	
Male Unknown Age	0		0 0	
Female Unknown Age	0		0 0	
Unknown Sex and Age	0		0 0	
Total	0	-	0 0	-

SOURCE.

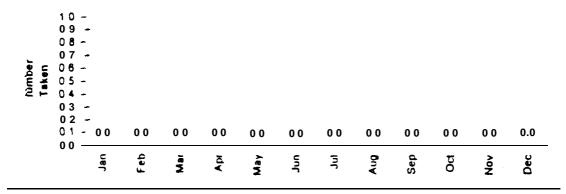
Alaska Department of Fran and Game. Division of Subsistence: Subsistence Study and Monitor System for See Lions and Harbor Sears in Alaska: with assistance from the Kenartze Indian Tribe IRA and Cook inlet Region; Inc., 1994.



B Sessonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Freh and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Sears in Alaska, with assistance from the Kenarizze Indian Tribe IRA and Cook Injet Region, Inc., 1994.

TABLE 64. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: KENAI, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 2
Surveyed Households 2
Sampling Fraction 100.0%
Sample Household Members 6
Estimated Household Members 6 0

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households:
Used 100.0%
Total Number Harvested 20.0
Hunted so 0%
Total Number Struck and Lost 0.0
Harvested s o m b
Total Number Taken 20.0
Received 1000%
Number Harvested Per Capita N/A
Gave Away 1000%

H ARBOR SEAL	L HARV	EST BY	SEASO	N								ŧ	Inknown	
	Jen	Feb	Mar	Apr	May	Jun	ببد	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND 1	AKE BY	SAMPLED	HOUSE	OLDS (UP	PANOE	D)							
Hervest	0	5	5	0	0	0	0	0	0	10	0	0	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	5	5	0	0	0	0	0	0	10	0	0	0	2
ESTIMATED HARVI	EST AND	TAKE BY	COMMUNI	TY (EXP)	WDED									
Harvest	0.0	5.0	5.0	00	00	0 0	0 0	0 0	0 0	10.0	0.0	0.0	0.0	20.
Struck and Lost	0.0	0.0	00	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0	0.
Total Take	0.0	5.0	SO.	00	00	0 0	0 0	0 0	0 0	100	0.0	0.0	0.0	ID.
STIMATED SEAS	DNALLY A	DJUSTED	HARVEST	AND T	KE BY CO	MMUNETY	(EXPAND	ED)						
Hervest	0.0	50	SO	00	00	0 0	0 0	0 0	0 0	100	0.0	0 0		20
Struck and Lost	0.0	00	00	00	00	0 0	0 0	0 0	0 0	0 0	0.0	0.0		0.
Total Take	00	50	50	00	00	0 0	0 0	0 0	0 0	10 0	0 0	0.0		20.
Total Take (%)	0.0%	25.0%	25 0%	00	00	0.0%	0.0%	0.0%	0.0%	50 0%	0.08	0.0%		100
Gun - Tek	0.0	5.0	100	100	100	100	100	100	100	20.0	20.0	20.0		
Cum Take (%)	0.0%	a.08	50 0%	no8	50 0%	50 0%	50 0%	50.0%	50 0%	100 0%	100.0%	100.0%		

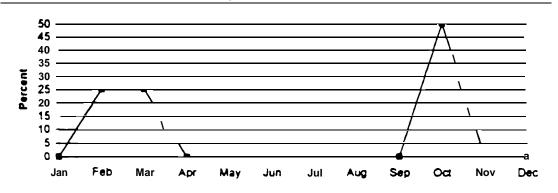
HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Espmated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	0	00%	0 0	00%
Adult Female	0	00%	0 0	00%
Adult Unknown Sex	20	1000%	200	1000%
Juvenile Male	0	00%	0 0	0 0 %
Juvenile Female	0	00%	0 0	0 0 %
Juvenile Unknown Sex	0	00%	0 0	0 0 %
Pup Male	0	00%	0 0	0 0 %
Pup Female	0	00%	0 0	0 0 %
Pup Unknown Sex	0	00%	0 0	0 0 %
Male Unknown Age	0	00%	0 0	0 0 %
Female Unknown Age	0	0.0%	0 0	0 0 %
Unknown Sex and Age	0	00%	0 0	0 0 %
Total	20	1000%	20.0	100.0%

SOURCE

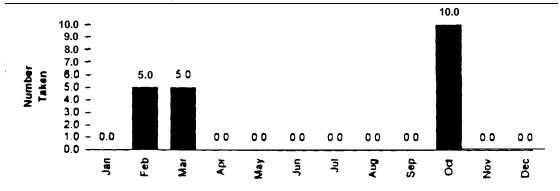
Alaska Department of Fish and Game. Division of Subarstence. Subarstence Study and Monitor System for Sea Lights and Harbor Seals in Alaska, with assistance from the Kenartze Indian Tribe IRA and Cook Inlet Region, Inc., 1994.

FIGURE 54. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: KENAI, 1993

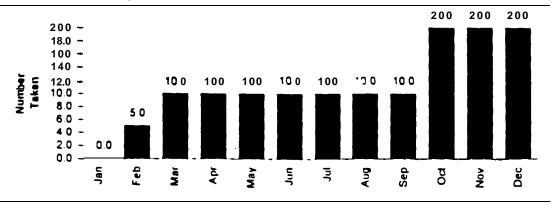
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kenartze Indian Tribe IRA and Cook Inlet Region, Inc., 1994.



KODIAK ISLAND

TABLE \$5. SEA LION (Eumetopies jubetus) HARVEST AND TAKE ESTIMATES: AKHIOK, 1993

SAMPLING DESIGN: CENSUS

Total Native Households 21
Surveyed Households 19
Sampling Fraction 90 5%
Sample Household Members 73
Estimated Household Members 80 7

SEA LION HARVEST AND USE INFORMATION

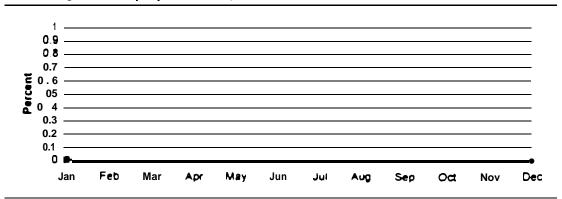
Percent Of Native Hous	eholds	Estimated Community Harvest and Take (Expande	ed):
Used	0.0%	Total Number Harvested	0.0
Hunted	5.3%	TotalNumberStruck ● nclLost _	0 0
Harvested	0.0%	Total Number Taken	0.0
Received (0 0 %	Number Harvested Pet Capita	0.00
Gave Amy	0.0%		

SEA LION HAR	VEST I	BY SEA	SON									L	inknown	
	Jan	Feb	Maz	Apr	May	300		4	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVES	ST AND T	AKE BY S	MPLED	HOUSEH	DLDS (UN	EDPANDE	D 1							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	(
ESTIMATED HARVE	ST AND	TAKE BY	COMMUN	TY (EXPA	NOED)									
Harvest	0.0	0.0	00	00	00	00	0 0	00	00	00	0.0	00	00	0.0
Struck and Lost	0.0	0.0	00	00	00	00	00	00	00	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	00	00	00	00	00	00	00	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASO	NALLY A	DJUSTE	HARVES	T AND TA	(E BY CO	MUNITY	(EXPANDE	(D)						
Harvest	0. 0	0. 0	0 0	00	00	0 0	0 0	0 0	0 0	0 0	0.0	0 0		0.0
Struck and Loss	0. 0	0.0	0 0	00	00	0 0	0 0	0 0	0 0	0 0	0.0	0.0		0.0
Total Take	0. 0	0.0	0 0	00	00	0 0	0 0	0 0	0 0	0 0	0.0	0.0		0.0
			_											
Cumulative Take	0-0	00	0 0	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0.0		
Cum Take (%) 0	0 %	0.0%	0.0%	00	00	00	003	0.0%	003	800	0.0%	0.0%		

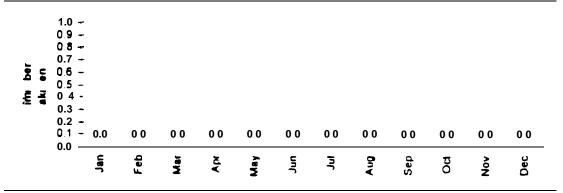
SEA LION HARVEST BY AGE AND SEX	Peponed		Estimated		
	By Sample	Percent	By Community	Percent	
	(Unexpanded)		(Expanded)		
Adult Male	0	_	0 0		
Adult Female	0		0 0		
Adult Unknown Sex	0	_	0 0		
Juvenile Male	0		0 0	-	
Juvenik Female	0	_	0 0		
Juvenik Unknown Sex	0		0 0	_	
Pup Male	0		0 0	-	
Pup Female	0		0 0		
Pup Unknown Sex	0		0 0		
Male Unknown Age	0		0 0	_	
Female unknown Age	0		0 0		
Unknown Sex and Age	0		0 0		
Total	0	_	0 0		

SOURCE

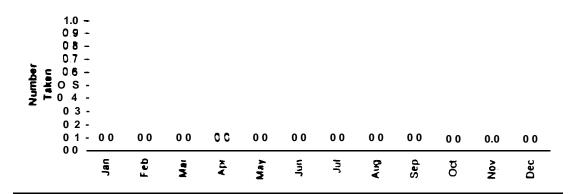
Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Alchiols and Alchiols Tribal Council. 1994.



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Garne Division of Subsistence Subsistence Study and Monitor System for Sea wors and Harbor Seas in Alaska, with assistance from the City of Alchiok and Alchiok Thosi Council, 1994.

TABLE 56. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: AKHIOK. 1993

SAMPLING DESIGN: CENSUS

Tart Native Households 21
Surveyed Households 19
Sampling Fraction 90.5%
Sample Household Members 73
Estimated Household Members 80.7

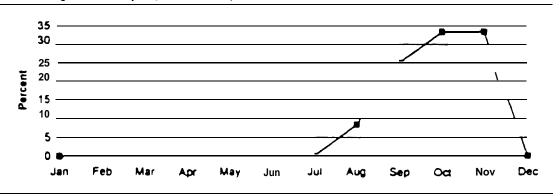
HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Netive Households
Used 68.4%
Total Number Harvested 13.3
Hunted 38.8%
Total Number Struck and Lost 0.0
Hervested 28.3%
Received 47.4%
Number Harvested Per Capita 0.16
Gave Away 42.1%

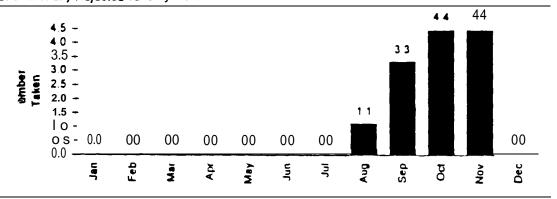
HARBOR SEAL	LHARV	ESTBY	SEASO	N								U	Inknown	
	-	400	Mar	Apr	May	30	24	4.0	Seo_	Oct	Nov	Dec	Month	Tota
REPORTED HAPM	EST AND	'MET'S	METO:	€	DLDS IUNE	DOMANDE	Di							
Hervool	0	0	С	0	3	0	0	1	3	4	4	0	0	12
Struct and Loss	0	0	С	0	С	0	0	0	0	0	0	0	0	0
Total Taxe	0	0	0	0	0	0	0	1	3		4	0	0	12
ESTIMATED HAPV	ES" AND	TAKE BY	SOMMON	TOUP A	NOEDI									
Hervest	00	oc	00	00	со	0 0	0 0	1.1	3 3	4 4	4 4	0.0	0.0	13.3
Struck and upon	00	00	cc	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0 0
Total Tare	00	00	cc	00	00	0 3	0 0	1 1	3 3	4 4	4 4	0.0	0.0	13. 3
ESTIMATED SEAS	ONALY	STED	HAPVES"	-	CE BY COA		EPAND	ED I						
manvest	00	00	DO	3 0	0.5	0 0	0 0	1 1	3 3	4.4	4 4	0 0		133
Struck and Loss	00	00	CC	30	CC	0 0	0 0	0 0	0 0	0 0	0.0	0 0		0.0
Tow Take	00	00	CC	cc	oc	0 0	0 0	1 1	3 3	4 4	4 4	0.0		13.3
Total Taxe (%)	000	0.03	00	00	00	00	0.0%	8.3%	25 0%	33 3%	3 3 3	% 0.0 3	,	100%
Cumulative Taxe	00	00	00	00	00	0 0	0 0	1 1	4 4	8.8	13. 3	13.3		
Cum Take (%)	00	0.0%	00	CON	C CTN	Oh	00	8.3%	33 3%	86 7%	100 0%	100 0%		

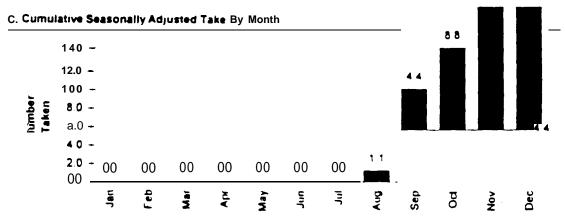
HARBOR SEAL HARVEST BY ACE AND SEX	Reported		Estimated	
	By Samore	Percent	By Community	Percent
	(Unexpanded		(Expended)	
Adult Male	6	500%	6.6	500%
Adult Female	0	00%	00	00%
Adult Unknown Sex	6	50 0%	6.6	50 0%
Juvenile Male	0	00%	00	00%
Juvenile Female	0	00%	00	0 0%
Juvenile Unknown Sex	0	00%	00	0.0%
Pup Male	0	00%	00	0 0%
Pup Female	0	00%	00	00%
Pup Unknown Sex	0	0 0%	00	00%
Male Unknown Age	0	00%	00	00%
Female Unknown Age	0	00%	00	00%
Unknown Sex and Age	0	00%	0 0	00%
Total	12	100 0%	133	1000%

SOURCE. Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lione and Marbor Seals in Alaska, with assistance from



B. Seasonally Adjusted Take By Month





SOURCE Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea upns and Harbor Seals in Alaska, with assistance from the City of Althox and Althox Thos. Council. 1994.

TABLE 57. SEA LION (Eumetopies jubetus) HARVEST AND TAKE ESTIMATES: KARLUK, 1993

SAMPLING DESIGN: CENSUS

Total Native Households 15 Surveyed Households 12 Sampling Fraction 800% Sample Household Members 49 Estimated Household Members 613

SEA LION HARVEST AND USE INFORMATION

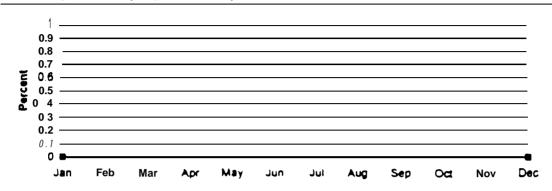
Percent Of Native Households	Estimated Community Harvest and Take (Expanded).
Used o o %	Total Number Harvested 0 0
Humted 0 0 %	Total Number Struck and Lost 0 0
Harvested 0.0%	Total Number Taken 0 0
Received 00%	Number Harvested Per Capita 0 00
Gave Away 0 0%	

SEA LION HAR	VEST	8 Y S E A	SON									L	חשפתוות	
	Jen	Feb	Mar	Apr	May	Jun	أنط	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVE	\$7 A N D	TAKE BY S	SAMPLED	HOUSEH	OLDS (UN	EXPANDE	D)							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVE	EST AND	TAKE BY	COMMUNI	TY (EXPA	MOEDI									
Harvest	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0.0	0 0
Struck and Loss	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0 0	0.0	0 0
Total Take	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0 0	0 0
ESTIMATED SEASO	NALLY A	DJUSTED	HARVES!	AND TA	KE BY CO	MMUNITY	EXPANDE	D)						
Hervest	0.0	00	00	00	00	00	00	00	00	00	00	00		00
Struck and Lost	0.0	0.0	00	00	00	00	00	00	0.0	0 0	0.0	0.0		0 0
Total Take Total Take (%)	0 0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0 0	0 0		0 0
Cumulative Take Cum Take (%)	0 0 0.0%	0.0	0 0 0. 0%	0 0	0 0	0 0	00 00%	0 0 0 0%	0.0%	0.0 0.0%	0.0%	0.0		

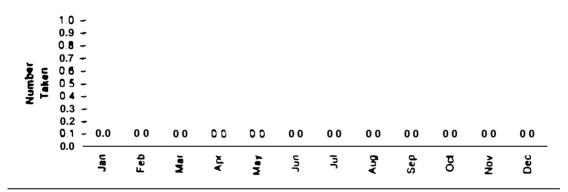
SEA UON HARVEST BY AGE AND SW	Reported		Estimated	
	By Semple	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	-	0 0	_
Adult Female	0	-	0.0	_
Adult Unknown Sex	0	-	0 0	
Juvenile Male	0	-	0 0	-
Juvenile Female	0		0 0	_
Juvenile Unknown Sex	0	-	0 0	
Pup Male	0	-	0 0	
Pup Female	0	-	0 0	
Pup Unknown Sex	0		0 0	
Mate Unknown Age	0	-	0 0	
Female Unknown Age	0	_	0 0	-
Unknown Sex and Age	0		0 0	
Total	0		0 0	-

SOURCE Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study. and Monitor System for See Lione and Harbor Seals in Alaska, with assistance from

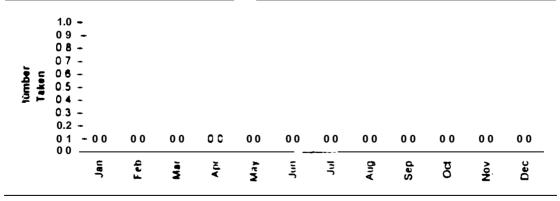
FIGURE 67. SEA LION (Eumetopias jubetus) TAKE ESTIMATES: KARLUK. 1993



Et. Seasonally Adjusted Take By Month



C. Cumulrtiw Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fran and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and marbor Seas in Alaska, with assistance from the Karluk IRA Council. 1994.

SAMPLING DESIGN: CENSUS

Total Native Households 15
Surveyed Households 12
Sampling Fraction 800%
Sample Household Members 49
Estimated Household Members 513

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	E shimered Community Hervest and Take (Expand						
Used 417%	Total Number Harvested	10.0					
Hunted 41 7 %	Total Number Struck and Lost	1.3					
Harvested 41 7%	Total Number Taken	113					
Received 16 7%	Number Harvested Per Capita	0.16					
Gave Away 41 7%	·						

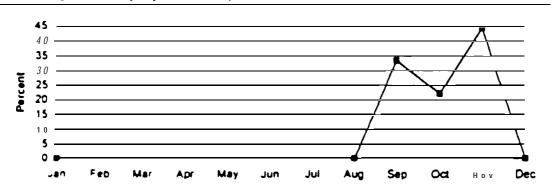
(ARBOR SEA												_	inknown	
	Jan	Feb	Mar	Aor_	May	٠,٠	بد	440	Seo	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND	TAKE BY S	AMPLED I	HOUSEH	DLDS IUN	EXPANDE	D1							
Hervest	0	0	0	0	0	0	c	0	2	2		0	0	8
Struck and Lost	0	0	С	0	C	0	0	0	1	0	0	0	0	1
Total Taire	0	0	0	0	C	C	0	0	3	2	4	0	0	e
ESTIMATED HARVE	EST AND	TAKE BY	OMMUN	TY (EXPA	NDED									
Harvest	0 0	0 0	0 0	0 0	СС	3 C	0 0	0 0	2 5	2.5	5 0	0 0	0.0	10.0
Struck and Loss	0 0	0 0	0 0	0 C	0 C	0 0	0 C	0 0	13	0 0	0 0	0 0	0.0	13
Total Take	0 0	00	0 0	0 0	00	0 0	00	0 0	3 8	25	5.0	0 0	0 0	113
ESTIMATED SEASO	DNALLY A	WUSTED	HARVES	T AND TA	KE BY CO	MMUNITY	EXPANDE	ED)						
Hervest	0 0	0.0	0 C	0 0	0 C	0 C	0 0	0 0	2.5	2.5	50	0 0		10.0
Struck and Lost	0 0	0 0	0 0	0 0	0 0	0 C	0 0	0 0	1.3	0 0	0 0	0 0		1.3
Total Take	0 0	0 0	0 C	Q C	٥c	0 C	0 0	0 0	3.8	2.5	5 0	0 0		11. 3
Total Take (%)	0.0%	0.0%	00	c on	00	000	0.0%	0.0%	33 3%	22.23	4 4 4	% 0. 0%		100%
Cumulative Take	0.0	0.0	0.0	00	0.0	c c	0.0	٥٥	3.8	6.3	113	11.3		
Cum Take (%)	0.0%	0.0%	00	000	00%	00	000	00	33.3%	55 6%	100 0%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Samore	Percent	By Community	Percent
	(Unexpended		(Expanded)	
Adult Male	2	250%	2 5	250%
Adult Female	1	125%	13	125%
Adult Unknown Sex	3	37.5%	38	37 5%
Juvenile Male	1	12 5%	13	125%
Juvenile Female	0	0.0%	0 0	00%
Juvenile Unknown Sex	1	125%	13	125%
Pup Male	C	0 0%	0 0	00%
Pup Female	0	0 0%	0 0	00%
Pup Unknown Sex	0	0.0%	0 0	00%
Male Unknown Age	0	00%	0 0	00%
Female Unknown Age	0	0 0%	0 0	00%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	8	100 0%		100 0%

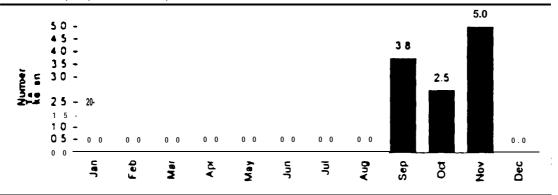
SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seas in Alaska, with assistance from the Kartuk IRA Council. 1994.

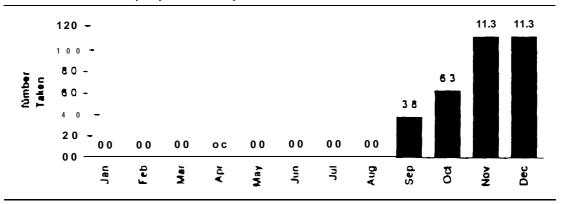
FIGURE 58. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: KARLUK. 1993



0. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Karluk IRA Council. 1994.

TABLE 59. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: KODIAK CITY. 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total Total Native Households 10 393 403 Surveyed Households 10 31 41 Sampling Fraction 100.0% 7.9% 10.2% Sample Household Members 40 88 128 **Estimated** Household Members 400 11156 11556

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households
Used 9 7 %
Hunted 3 1%
Harvested 0 0 %
Received 0.7%
Gave Away 0 0%

Estimated Community Harvest and Take (Expanded)
Total Number Harvested 0.0
Total Number Struck and Lost 12.7
Total Number Taken 12.7
Number Harvested Per Capita 0.00

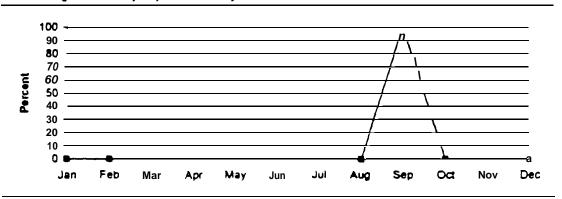
SEA LION HAP	RVEST.	B Y SEA	SON									· ·	Inknown	
	Jen	Feb	Mar	Apr	Mey	مبد	ابط	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND	TAKE BY S	AMPLED	HOUSEHO	DLDS (UNE	DIPANDE!	O)							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total Talte	0	0	0	0	0	0	0	0	1	0	0	0	0	1
ESTIMATED HARV	EST AND	TAKE BY	COMMUN	ITY (EXPA	NDEDI									
Hervest	0.0	0.0	0-0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Struck and Lost	0 0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	12 7	0.0	0 0	0 0	0 0	127
Total Taire	0 0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	127	0 0	0 0	0 0	0 0	127
ESTIMATED SEASO	DNALLY A	DJUSTED	HARVES	T AND TA	KE BY CON	MUNITY	EXPANDE	D)						
Hervest	0.0	00	00	00	00	00	00	00	00	00	0.0	00		00
Struck and Lost	00	00	00	00	00	00	00	00	127	0 0	0 0	0 0		127
Total Take	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	12 7	0 0	0 0	0 0		127
Total Take R I	0.08	0.0%	00%	00%	0.0%	00%	0 0 8	0.0%	100.0%	a m	0.0%	0.0%		100%
Cumulative Taire	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	127	127	127	127		
Cum Take (%)	0.0%	0.0%	00%	00%	00	800	0.0%	0.0%	100 0%	100 0%	100.0%	100 0%		

SEA LION HARVEST BY AGE AND SEX	Reported			Estimated	
	By Sample	Percent	Ву	Community	Percent
	(Unexpended)			(Expanded)	
Adult Male	0			0 0	
Adult Female	0			0 0	
Adult Unknown Sex	0			0 0	
Juvenile Male	0			0 0	-
Juvenile Female	0			0 0	
Juvenile Unknown Sex	0	_		0 0	
Pup Male	0			0 0	
Pup Female	0			0 0	_
Pup Unknown sex	0			0 0	
Maie Unknown Age	0	,		0 0	_
Female Unknown Age	0	_		0 0	_
Unknown Sex and Age	Q			0 0	-
Total	0			0.0	

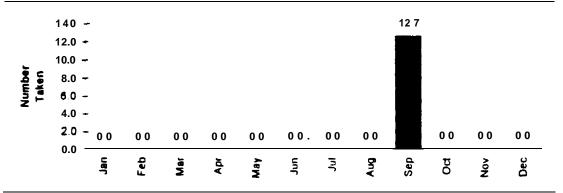
SOURCE.

Alaska Department of Fish and Game: Division of Subeistance: Subeistance Study and Monitor System for See Lions and Harbor Seals in Alaska: with assistance from the Kodiak Tribal Council and Kodiak Area Native Association, 1994.

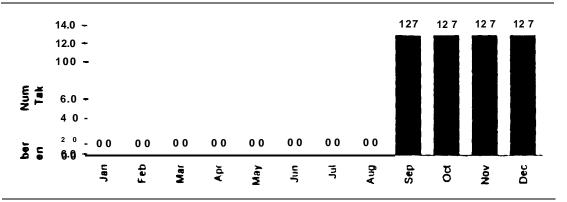
FIGURE 99. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: KODIAK Cm, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lidns and Harbor Seals in Alaska, with assistance from the Kodiak Tribal Council and Kodiak Ares Native Association. 1994.

TAME 60. HARBOR SEAL (Phoca vitulina) HARVEST MO TAKE ESTIMATES: KODIAK cm. 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total Total Native Households 393 403 10 Surveyed Households 41 10 31 Sampling Fraction 100 0% 7 9% 10.2% Sample Household Members 40 88 128 Estimated Household Members 40 0 1115 6 1155 6

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households

Used 26 4%

Humted 1.2%

Harvested 0 2 %

Received 2 8 2 %

G o v e Away 3 4 %

Estimated Community Harvest and Take (Expanded)

Total Number Harvested 6 0

Total Number Struck and Lost 1 0

Total Number Taken 7 0

Number Harvested Per Capita 0 0 1

Total

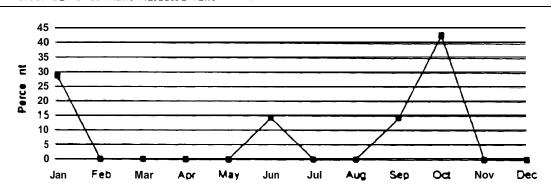
HARBOR S E A	LHARV	EST BY	SEASO	N								U	nknown	
	Jan	Feb	Mer	Apr	Mey_	, multi	سد.	Aug	Sep	С	n		Nov Dec	Mon
REPORTED HARM	EST AND	TAKE BY	SAMPLED	HOUSEH	OLDS (UN	IDPANCE	וס							
Hervest	2	0	0	0	0	1	0	C	0	3	0	0	0	6
Struck and Loss	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total Taire	2	0	0	0	0	7	0	0		1 3	0	0	0	7
ESTIMATED HARV	EST AND	TAKE BY	COMMUN	(E)(P)	MDEDI									
Harvest	2.0	00	0 0	0 0	0 0	10	0 0	00	00	30	00	0 0	0.0	6 0
Struck and Loss	0.0	0.0	0.0	0 0	0 0	0 0	0 0	00	10	00	00	0 0	0.0	1.0
Total Take	2.0	00	0.0	0 0	0 0	1 0	0 0	00	10	30	00	0 0	0. <u>0</u>	7.0
ESTIMATED SEAS	ONALLY	NOUSTEE	HARVES	T AND TA	KE BY CO	MMUNITY	(EXPANDE	ED)						
Harvest	2.0	0 0	0 0	0 0	0 0	1.0	0 0	0 0	0 0	3 0	0 0	0 0		5.0
Struck and Lost	0 0	0 0	0 0	0 0	0 0	0 0	00	00	1.0	0 0	0 0	0 0		1.0
Tow Take	2.0	0 0	0 0	0 0	0 0	1.0	0.0	0 0	10	3 0	0 0	0 0		7 0
Total Take (%)	28.6%	0.0%	0.0%	0.0%	0.0%	14 3%	0.0%	0.0%	14 3%	42.9%	0.0	% O OS		100%
Cumulative Take	2.0	2.0	2 0	2 0	2 0	3 0	3 0	3.0	40	7 0	7 0	7 0		
cum Take (%)	28.6%	29.6%	28 6%	28 6%	28 6%	42 9%	42	429%	57 1 %	100 0%	100.0%	100 0%		

HARBOR SEAL HARVEST BY AGE AND SW	Reconed		Estimated		
	By Sample	Percent	By Community	Percent	
	(Unexpended)		(Expended)		
Adult Male	3	500%	3 0	500%	
Adult Female	0	00%	0 0	00%	
Mull Unknown Sex	0	00%	0 0	00%	
Juwntk Male	0	00%	0 0	00%	
Juvenile Female	Q	00%	0 0	00%	
Juvenile Unknown Sex	2	33 3%	2.0	33 3%	
Pup Male	0	00%	0 0	00%	
Pup Female	0	00%	0 0	00%	
Pup Unknown sex	1	16 7 %	10	167%	
Male Unknown Age	0	00%	0.0	0 OK	
Female Unknown Age	0	00%	0 0	00%	
Unknown Sex and Age	0	00%	0 0	00%	
Total	6	1000%	6.0	100 0%	

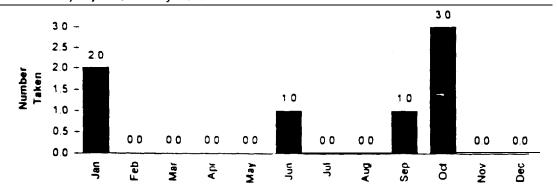
SOURCE.

Alaska Department of Fish and Game. Division of Subaistance. Subaistance Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kodiak Tribal Council and Kodiak Area Native Association, 1994.

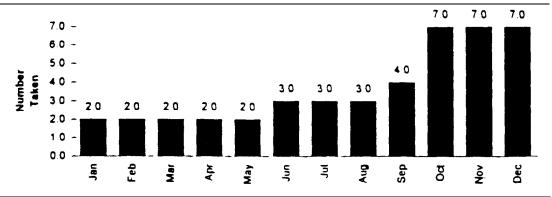
FIGURE 60. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: KODIAK CITY, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Hisrbor Seals in Alaska, with assistance from the Kodiak Tribal Council and Kodiak Area Native Association. 1994.

TABLE S1. SEA LION (Eumetopias jubatus) HARVEST MO TAKE ESTIMATES: LARSEN MY. 1993

SAMPLING DESIGN: CENSUS

Total Native Households 43
Surveyed Households 39
Sampling Fraction 90 7%
Sample Household Members 111
Estimated Household Members 122 4

SEA UON HARVEST AND USE INFORMATION

Percent or Native Households.	Estimated Community Harvest and Take (Expande	ed):
used 0.0%	Total Number Harvested	0 0
Hunted 0.0%	Total Number Struck and Lost	0.0
Harvested 0 0 %	Total Numtvr Taken	0.0
Received 0 0 %	Number Harvested Per Capita	0.00
Gave Away 00%		

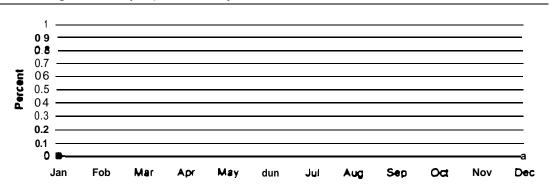
SEA LION HAI	RVEST I	BY SEA	SON									·	Inknown	
	Jen	Feb	Mer	Apr	Mey	A	ابط	4	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND T	AKE BY S	AMPLED	+OUSE+K	DLDS (UN	EDDANOE	٥,							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	(
ESTIMATED HARVI	EST AND	TAKE BY	COMMUNI	TY (EXPA)	NDED)									
Hervest	0.0	0.0	00	00	00	00	00	00	00	00	0.0	0.0	0.0	00
Struck and Loss	0.0	00	00	00	00	00	00	00	00	00	0.0	00	0.0	0.0
Total Take	0.0	0.0	00	00	00	00	00	00	00	00	0.0	0.0	0.0	00
ESTIMATED SEAS	ONALLY A	WUSTER	HARVES	TANDTA	Œ BY CO	MMUNITY	(EXPANO)	EDI						
Hervest	00	00	00	00	00	00	00	00	00	00	0.0	0 0		00
Struck and Loss	0.0	00	00	00	00	00	00	00	00	00	0.0	0.0		00
Total Take	0.0	0.0	00	00	00	00	00	00	00	00	0.0	0.0		0.
Total Take (%)	-	-	-	-	_	_	-	_	-	_	***	_		
Cumulative Take	0.0	0.0	00	00	00	00	00	00	00	00	0.0	0.0		
Cum Take (%)	0.0%	00%	0.0%	0.0%	800	00	0.0%	0.0%	0.0%	0.0%	00%	00%		

SEA LION	HARVEST BY AGE AND SEX	Pegoned		Estimated	
		By Sample	Percent	By Community	Percent
		(Unexpanded)		(Expanded)	
	Adult Male	0	_	00	
	Adult Female	0		00	
	Adult Unknown Sex	0	_	00	
	Juvenile Maie	0		00	-
	Juvenile Female	0	_	00	
	Juvenile Unknown Sex	0	_	00	
	Pup Male	0	-	00	_
	Pup Female	0		00	
	Pup Unknown Sex	0		00	-
	Male Unknown Age	0		00	_
	Female Unknown Age	0	-	00	-
	Unknown Sex and Age	0		00	
	Total	0		00	

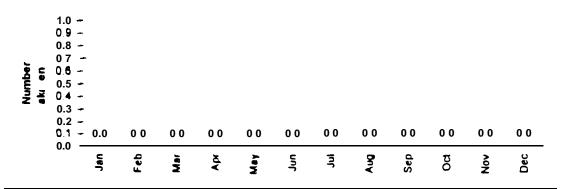
SOURCE Alaska Department of Fish and Game. Division of Subsistence Subsistence Study and Monitor System for See Liona and Harbor Seals in Alaska, with assistance from

the City of Lanten Bay and Larsen Bay Tribal Council, 1994

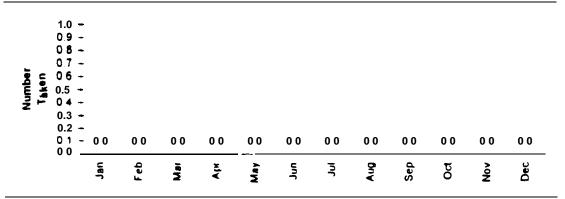
FIGURE 61. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: LARSEN BAY, 1913



B. Sessonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alasks Department of Fien and Game. Division of Subsistence. Subsistence Study and Montor System for Sea Lions and marbor Seats in Alaska, with assistance from the City of Larsen Bay and Larsen Bay Tribal Council. 1994.

TABLE 62. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: LARSEN BAY, 1993

SAMPLING DESIGN CENSUS

Total Native Households 43
Surveyed Households 39
Sampling Fraction 90.7%
Sample Household Members 111
Estimated Household Members 122.4

HARBOR SEAL HARVEST AND USE INFORMATION

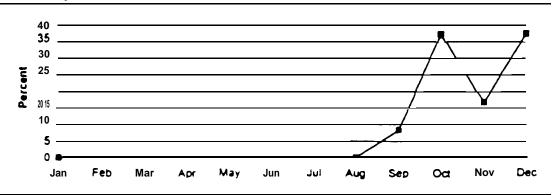
Percent Of Native Hou	seholds	Estimated Community Harvest and Take (Expande	id).
Used	33 3%	Total Number Harvested	7.7
Hunted	17 9%	Total Number Struck and Lost	5.5
Deterred	12 8%	Total Number Taken	
Received	23 1%	Number Harvested Per Capita	0.06
Gave Away	25 6%		

HARBOR SEAL	HARV	ESTBY	SEASO	~								Ĺ	Inknown	
		Fee	-	40-	May	مد	سد	440	Seo	Ocr	Nov	Oec	Month	Total
REPORTED MANE	5, MC ,	WETS	MP.ED	-∞.ε<	אטו פשכ	EDP 4HOED);							
Hervest	0	0	С	0	0	0	0	0	1	2	2	2	0	7
Struct and Loss	0	5	C	С	C	0	0	0	0	•	0	1	3	5
Total Taxe	0	0	С	С	0	0	0	0	1	3	2	3	3	12
ESTIMATED HARVE	EST AND	TAKE BY	SHOW	7 1D0PA	NDEDI									
Harvest	0 0	0 0	30	0 0	0 0	С О	0.0	0 0	7.1	2.2	2.2	2.2	0.0	7 7
Struck and Loss	0 0	0 0	0 0	0 C	0 0	0 0	0 0	0 C	0 0	1.1	0 0	11	3.3	5 5
Total Take	0 0	0 0	0 C	СО	0 0	0 0	0.0	СО	1.1	3 3	2.2	3.3	3.3	13.2
ESTIMATED SEASO	DNALLY A	QUISTED	HAPVE S'	ANC TA	(E 8Y CO	MMUNITY	EXPANDE	D;						
Hanvest	0 0	0 0	ос	0.0	ос	0 0	0 0	0 0	1.1	2 2	2.2	2.2		7 7
Struck and Loss	0 0	СО	0 0	C C	0 0	0 0	0 0	0 0	0.0	28	0 0	2.8		5.5
Total Taxe	0 0	0 0	0.0	0 0	0 0	0 0	0 C	0 0	1 1	5 0	2.2	50		13.2
Total Taxe (%)	00%	00	ОМ	ОМ	00%	ОМ	00%	ОМ	8 3%	37 5%	16.7%	37.5%		100%
Cumulative Take	0 0	0 0	0 0	0 0	0 C	0 C	0 0	0 0	1 1	6.1	83	1 3 2		
Cum Take (%)	00	0 0 8	0 🗪	CON	3 33	0.0%	0 0 8	0.0%	8 3%	458%	62 5%	100.0%		

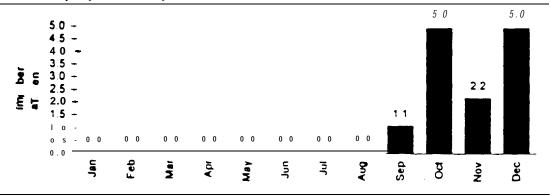
HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Samore	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	4	57 1%	4.4	57 1%
Adult Female	0	0 0%	0 0	0 0%
Adult Unknown Sex	3	429%	3 3	429%
Juvenile Maie	0	00%	00	00%
Juvenile Female	0	00%	00	00%
Juvenile Unknown Sex	0	0 0%	00	00%
Pup Male	C	0 0%	00	00%
Pup Female	0	0.0%	00	0 0%
Pup Unknown s e x	0	OOY	00	00%
Male Unknown Age	0	00%	00	0 0%
Female Unknown Age	C	0 0%	00	00%
Unknown Sex and Age	0	0 0 %	0 0	0 0 %
Total	7	1 0 0 0 %	77	1 0 0 0 %

SOURCE Alaska Department of Fish and Game. Ovision of Subsistence Subsistence Study and Monitor System for See Lions and Harbor Seals in Alaska, with assistance from

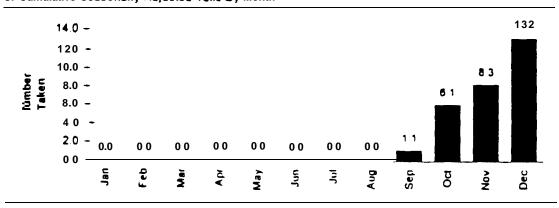
FIGURE 62 HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: LARSEN BAY, 1983



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fish and Game. Division of Subaistence: Subaistence Study and Monitor System for Sea Junis and Harbor Seats in Alaska, with assistance from the City of Larsen Bay and Larsen Bay Tribal Council. 1994.

TABLE 63. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: OLD HARBOR, 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total

Total Native Households 28 53 81
Surveyed Households 27 32 59
Sampling Fraction 96 4% 60 4% 72.8%
Sample Household Members 110 95 205
Estimated Household Members 114 1 157.3 271 4

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households: Estimated Community Harvest and Take (Expanded):

Used 93.3% Total Number Harvested 32.1

Hunted 3.7.6% Total Number Struck and Lost 10

Harvested 2.7.4% Total Number Taken 33.2

Received 66.2% Number Harvested Per Capita 0.12

Gave Away 38.1%

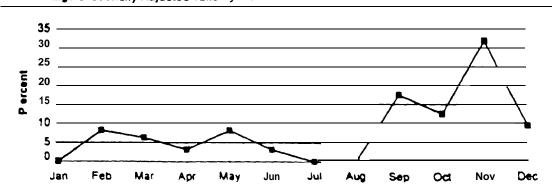
SEA UON HAR	VEST	BY SEA	SON									L	inknown	
	Jen	Feb	Mar	Apr	May	nuk	املا	Aug	Sec	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND 1	AKE BY S	AMPLED	HOUSEH	OLDS (UN	EXPANDE.	D)							
Harvest	0	2	2	1	2	1	0	0	5	3	9	3	0	28
Struck and Lost	0	0	0	0	0	0	0	0	0	7	0	0	0	1
Total Take	0	2	2	1	2	3	0	0	5		9	3	0	2 9
ESTIMATED HARVE	EST AND	TAKE BY	COMMUN	ITY (EXP)	MDED)									
Harvest	0.0	2 7	2.1	1 0	2 7	1 0	0 0	0 0	5 8	3 1	10 6	3 1	0 0	32 1
Struck and Lost	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0.0	1 0
Total Taxe	0.0	2 7	2 1	1 0	2 7	10	0 0	0 0	5 8	• 🗁	10 6	3 1	0 0	33.2
ESTIMATED SEASO	NALLY A	DJUSTED	HARVES	TANDT	NE BY CO	TINUMM	(EXPAND	€D)						
Harvest	0.0	2.7	21	10	2 7	1 0	0 0	0 0	5.8	31	10 6	3 1		32 1
Struck and Lost	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0		10
Total Take	0.0	2 7	2 1	1 0	2 7	1 0	0 0	0 0	5.8	4 1	10.6	3 1		3 3 2
Total Take (%)	0.08	8.1%	6.38	3 1 🖜	8 1%	31%	00	0.0%	17.5%	12 5%	31 9%	9 4%		100%
Cumulative Take	0.0	2.7	4.8	5 8	8.5	9 5	9 5	9 5	153	19 5	30 1	33 2		
Cum Take (%)	0.08	8 1%	1.48	17 5%	25 6%	28 7%	28 7%	28 7%	4628	58 7%	90 6%	100 0%		

SEA LION HARVEST BY AGE AND SW	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	11	393%	126	394%
Adult Female	4	214%	6 2	1 9 4 %
Adult Unknown Sex	1	36%	1 0	32%
Juvenik Male	10	357%	122	3 8 1 %
Juvenile Female	0	00%	0 0	0 0 %
Juvenile Unknown Sex	0	0.0%	0 0	0 0 %
Pup Male	0	00%	0 0	0 0 %
Pup Female	0	00%	0 0	0 0 %
Pup Unknown Sex	0	0.0%	0 0	0 0 %
Male Unknown Age	0	00%	0 0	0 0 %
Female Unknown Age	0	00%	0 0	0 0 %
Unknown Sex and Age	0	00%	0 0	00%
Total	28	1000%	321	1000%

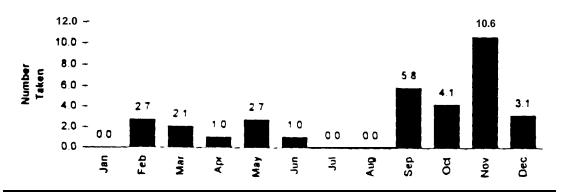
SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for See Lions and Harbor Seets in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribal Council, 1994.

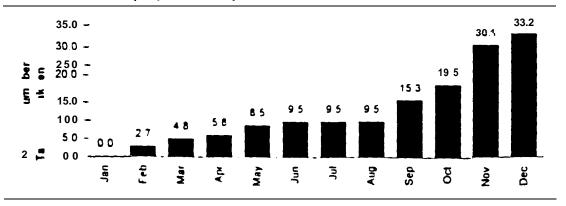
FIGURE 63. SEA UON (Eumetopias jubatus) TAKE ESTIMATES: OUJ HARBOR. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Montor System for Sea Lions and marbor Seals in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribai Council. 1994.

TABLE 54. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: OLD HARBOR, 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total
Total Native Households 26 53 81
Surveyed Households 27 32 59
Sampling Fraction 98 4 % 60 4% 72 8%
Sample Household Members 110 95 205
Estimated Household Members 114 1 1 5 7 3 271 4

HARBOR SEAL HARVEST AND USE INFORMATION

Gave Away 473%

Percent or Native Households

Used 9 4 6 %
Humed 4.4 3%

Harvested 4 0 4%
Received 0.9 5%

Estimated Community Harvest and Take (Expanded)

Total Number Harvested 67 6

Total Number Struck and Lost 2 7

Total Number Taken 70 3

Number Harvested Per Capita 0 2s

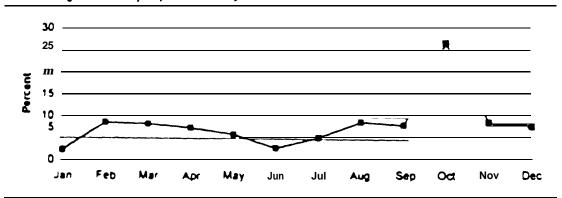
HARBOR SEAL	L HAR	EST BY	SEA.	SON								L	HINDOWN	
	Jan	Feb	Ma	r Apr	May	مد	ببذ	400	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND	TAKE®Y	SAMPLE	ED HOUSE	HOLDSIU	NEW NOC	Di							
Harvest	1	4	:	5 5	4	2	3	6	5	14	5	•	ò	58
Struck and Lost					Ď.	c	C			. •		1	Ô	2
Total Take	1		5	5	4	2	3	6	5	15	5	5	0	60
ESTIMATED HARM	EST AND	TAKE BY	COMMU	INITY (EX	PANDED									
Harvest	17	60	56	5 2	4.1	2 1	3 7	6.2	5 8	17 0	56	4 1	0.0	6-I £
Struck and Lost	00	00	00	00	0 0	0 0	0 0	00	00	1.7	00	10	0.0	2 7
Total Take	17	60	56	5 2	4.1	2 1	3 7	62	5.8	18 7	5 8	5.2	0 0	70.3
ESTIMATED SEASO	DNALLY A	W USTED	HARVE	EST AND T	AKE BY CO	DAMUNITY	EXPANDE	EDI						
Harvest	1.7	60	5 8	5 2	4.1	2 ′	37	62	58	170	5 8	4.1		67 6
Struck and Lost	00	00	00	00	0 0	0 C	0 0	00	00	17	00	1 0		2 7
tow Take	17	60	56	5.2	4.1	2 ′	3 7	62	5 8	18 7	56	5.2		70.3
Total Taxe (%)	2.4%	8 5%	638	7.4%	5 9 8	3 3%	5 3%	8 9%	8 3%	26 5%	63%	7.4%		100%
Cumulative Take	1.7	77	135	18 7	228	24 9	28 6	34 8		40 6 59 3	65 1	70.3		
C m Take (%)	24%	10.9%	19	28 158	32 43	35 4%	40 7%	49 6%	57 8	% 84	926%	100 0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated
	By Samore	Percent	By Community Percent
	(Unexpended		(Expanded)
Aaun Male	23	39 7%	263 390%
Adult Female	7	1 2 1%	73 107%
Adult Unknown Sex	1	1 7%	10 1 5%
Juvenile Male	21	362%	236 35 0%
Juvenile Female	1	1.7%	17 2 5%
Juvenile Unknown Sex	1	1 7%	10 1 5%
Pup Male	0	0.0%	0 0 00%
Pup Female	0	00%	0000%
Pup Unknown Sex	0	0.0%	0000%
Male Unknown Age	0	0.0%	0000%
Female Unknown Age	4	6 9%	6 6 9 6%
Unknown Sex and Age	٥	00%	00 00%
Total	58	100 0%	676 1000%

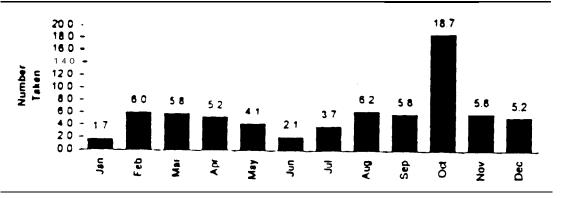
SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Soudy and Monitor System for Sea Lions and Marbor Sears in Alaska, with assistance from the City of Old Harbor and Old Marbor Tribal Council: 1994.

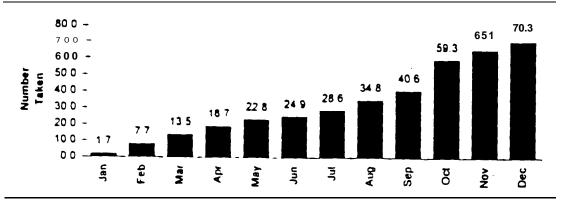
FIGURE 64. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: OLD HARBOR. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seats in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribal Council. 1994.

TABLE 66. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: OUZINKIE, 1993

SAMPLING DESIGN: CENSUS

Total Native Households 65
Surveyed Households 60
Sampling Fraction 92.3%
Sample Household Members 195
Estimated Household Members 211 3

SEA UON HARVEST AND USE INFORMATION

Percent Of Native Hous	eholds.	Estimated Community Harvest and Take (Expand	ed).
Used	6.7%	Total Number Harvested	5 4
Hunted	5.0%	Total Number Struck and Los	2.2
Harvested	5.0%	Total Number Taken	7 . 6
Received	3 3%	Number Harvested Per Capita	0 03
Gave Away	3.3%		

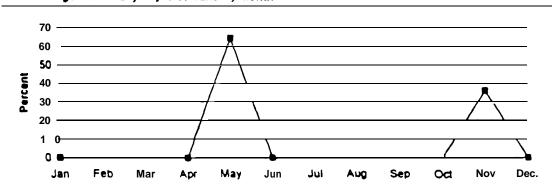
S EA UON HAF	RVEST	BY SEA	SON									ι)nknown	
	Jen	Feb	Mar	Apr	May	ميد	ادفل	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND	TAKE BY S	AMPLED	HOUSEH	IOLDS (UN	EXPANDE	O)							
Harvest	0	0	0	0	1	0	0	0	0	0	1	0	3	5
Struck and Loss	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Total Take	0	0	0	0	3	0	0	0	0	0	1	0	3	7
ESTIMATED HARVE	EST AND	TAKE BY	OMMUN	TY (EXP	MOEDI									
Hervest	0.0	0.0	0 0	0 0	11	0 0	0 0	00	00	0.0	1 1	0 0	3.3	5 4
Struck and Lost	0.0	0.0	0 0	0 0	2 2	0 0	0 0	00	00	00	00	0.0	0.0	2.2
Total Take	00	0.0	0 0	0 0	3 3	0 0	0 0	00	00	0 0	1.1	0.0	3 3	76
ESTIMATED SEASO	NALLY A	DJUSTED	HARVES	T AND TA	KE BY CO	MMUNITY	(E)PANDE	EDI						
Hervest	0.0	0.0	0 0	0 0	2 7	0 0	0 0	0 0	0 0	0.0	27	0 0		5 4
Struck and Lost	0.0	0.0	0 0	0 0	2.2	0 0	0 0	00	00	0.0	0.0	0 0		2.2
Total Take	00	0.0	0 0	0 0	49	0 0	0 0	00	00	00	27	0 0		7.6
law Teste (%L)	0.0%	0.0%	000	00%	64.3%	000	000	0.0%	0.0%	0.0%	35.7%	0.0%		100%
Cumulative Take	0.0	00	0 0	0 0	49	4 9	4 9	4.9	49	49	76	7.6		
Cum Take (%)	0.0%	0.0%	00%	0.0%	64 3%	64.3%	64 3%	64 3%	64 3%	64 3%	1000%	m o o 8		

SEA UON HARVEST BY AGE AND SW	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0 0 %	0 0	0.0%
Adult Female	0	00%	0 0	00%
Adult Unknown Sex	0	00%	0 0	00%
Juvenile Male	0	00%	0 0	00%
Juvenile Female	0	00%	0.0	00%
Juvenile Unknown Sex	2	4 0 0 %	2.2	4 0 0 %
Pup Male	0	0 0 %	0 0	0 0 %
Pup Female	0	00%	0 0	00%
Pup Unknown sex	0	00%	0.0	0.0%
Male Unknown Age	0	00%	0 0	0.0%
Female Unknown Age	0	0 0 %	0 0	0 0 %
Unknown sex and Age	3	600%	3.3	60 0%
Total	5	1000%	5 . 4	100.0%

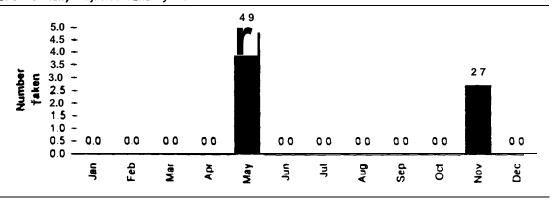
SOURCE

Alaaka Department of Fish and Game. Division of Subeletence. Subsistence Study and Montor System for Sea wors and Harbor Seals in Alaaka. with assistance from the Ouzinkie Native Corporation. City of Ouzinkie, and Ouzinkie Tribal Council, 1994.

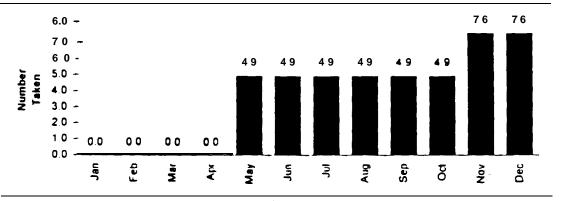
FIGURE 65. SEA LION (Eumetopies jubatus) TAKE ESTIMATES: OUZINKIE, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted fake By Month



SOURCE Alaska Department of Fish and Game. Division of Subaistence. Subaistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation. City of Ouzinkie, and Ouzinkie. Tribal Council. 1994.

TABLE 66. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: OUZINKIE, 1993

SAMPLING DESIGN: CENSUS

Total Native Households 65
surveyed Households 60
Sampling Fraction 92 3%
Sample Household Members 195
Estimated Household Members 211 3

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households
used 467%
Total Number Harvested 41.2
Hunted 33 3%
Total Number Struck and Lost
Harvested 3 0 0 %
Received 36 7 %

Gave Away 3 0 0 %

Estimated Community Harvest and Take (Expanded)

41.2
67
49.8
Number Harvested Per Capita 0 19

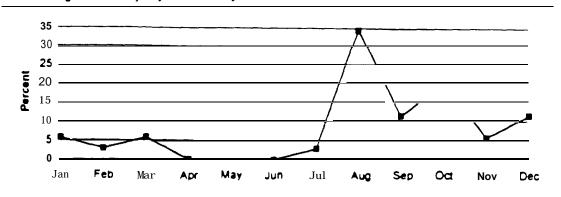
HARBOR SEAL	_ HARV	EST BY	' SEASC	ON								L	Inknown	
	المطار	Feb	Mer	Apr	May	ميد	ابد	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND T	AKE BY S	MPLED	HOUSEH	OLDS NA	EUPANDE	D)							
Hervest	2		2	0	0	0		6	4	7	2	4	9	38
Struck and Lost	0	0	0	0	0	0	0	4	0	0	0	0	4	8
Total Take	2		2	0	0	0	I	10		7	2	4	13	46
ESTIMATEDHARVE	STAND T	AKEBY	COMMUN	ITY (E)(P)	MDED)									
Harvest	22	1.1	2.2	00	00	00	Ш	6.5	43	7 6	2.2	4 3	9.8	41.2
Struck and Lost	0 0	0 0	0 0	0 0	0 0	0 0	0.0	43	00	00	00	00	4 3	87
Total Take	2.2	I١	2.2	00	00	00	1 I	108	43	7 6	2 2	4 3	14 I	49.8
ESTIMATED SEASO	DNALLY A	DJUSTED	HARVES	T AND TA	KE BY CO	MMUNITY	EXPANDE	(CE						
Hervest	28	1.4	28	00	00	00	14	8 5	5 7	9 9	28	5 7		412
Struck and Lost	0 0	0.0	0 0	0 0	0 0	0 0	0 0	8.7	0 0	0 0	0.0	0 0		87
Total Take	2.8	14	24	00	00	00	1.4	172	5 7	9 9	2.8	5.7		49 8
Total Take (%)	5.7%	2.8%	57%	800	0.0%	800	28%	34 5%	I 1 48	19 9%	57%	II 48		100%
Cumulative Take	2.J	43	71	7 1	7 1	71	8. 5	237	31 4	41.3	442	49 8		
Cum Take (%)	5.7%	8.5%	14.2%	14.2%	14.2%	14.2%	17 1%	51.6%	63.0%	82 9%	88 6%	100 0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	6	15.8%	6.5	15.6%
Adult Female	2	5 3%	2.2	5 3%
Adult Unknown Sex	4	10 5%	4 3	10 5%
Juvenik M ate	10	26 3%	10 8	26 3%
Juvenik Female	3	79%	3.3	79%
Juvenile Unknown Sex	4	10.5%	4 3	10.5%
Pup Maie	1	26%	11	2.6%
Pup Female	0	00%	00	0 0%
Pup Unknown Sex	0	00%	0.0	0.0%
Male Unknown Age	0	00%	00	00%
Female Unknown Age	0	00%	00	0 0%
Unknown Sex and Age	8	211%	6 7	211%
Total	36	1000%	41.2	100.0%

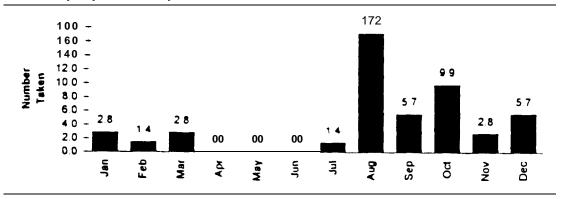
SOURCE

Alaska Department of Fish and Game. Division of Suberstence: Suberstence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Netive Corporation, City of Ouzinkie, and Ouzinkie Tribal Council, 1994.

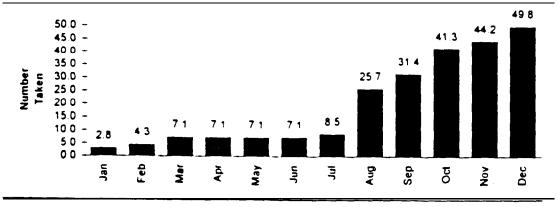
FIGURE 66. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: OUZINKIE. 1993



0. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alasks Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation. City of Ouzinkie, and Ouzinkie Tribal Council. 1994.

TABLE 87. SEA LION (Eumetopias jubetus) HARVEST AND TAKE ESTIMATES: PORT LIONS, 1993

SAMPLING DESIGN: TWO STRA TA

Active Other Total Total Native Households 7 52 59 Surveyed Households 7 26 33 Sampling Fraction 100 0% 50 0% 55 9% Sample Household Members 28 77 105 Estimated Household Members 28 0 154 0 182 0

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households
Used 68%
Total Number Harvested 4.0
Hunted 66%
Total Number Struck ● na Lost 1 0
Harvested 6 8%
Received 0.0%
Gave Away 68%

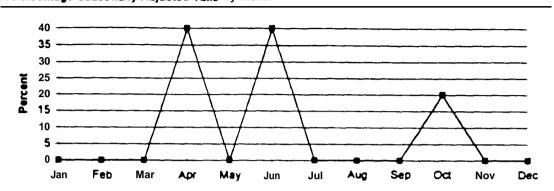
E - Community Harvest and Take (Expanded):
Total Number Harvested 4.0
Total Number Taken 5.0
Number Harvested Per Capita 0.02

SEA UUN HAN	RVEST BY SEASON									Unknown				
	مهد	Feb	Mar	Apr	May	مد	بر	4	Sec	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND T	AKE BY SA	MPLED I	HOUSEHO	DLDS (UN	ECPANDE	ום							
Hervest	0	0	0	1	0	1	0	0	0	1	0	0	0	3
Struck and Lost	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Total Taire	0	0	0	1	0	2	0	0	0	1	0	0	0	4
ESTIMATED HARVE	EST AND T	AKE BY C	OMMUNI	TY (EXPA	NOEDI									
Harvest	0.0	0.0	00	20	00	10	0 0	0 0	0 0	10	0 0	0 0	0.0	4 (
Struck and Loss	00	0.0	00	00	00	10	0 0	0 0	0 0	0 0	0 0	0.0	0.0	10
Tow Take	0.0	00	00	20	00	20	00	00	00	10	0.0	00	00	5.0
ESTIMATED SEASO	DNALLY A	DJUSTED	HARVES!	AND TA	KE BY CO	MMUNITY	EXPANDE	ED)						
Hervest	0.0	0. 0	00	20	00	10	00	00	00	10	0.0	0 0		4 (
Struck and Lost	0.0	0.0	00	00	00	10	0 0	0 0	0 0	0 0	0 0	0 0		1 (
Total Take	0.0	0.0	00	20	00	20	00	00	00	1.0	0.0	00		5.0
Total Take (%)	0.0%	0.0%	0.0%	40.0%	000	400%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%		100%
Cumulative Take	00	0.0	00	20	20	40	40	40	40	50	5. 0	50		
Cum Take (%)	0.0%	0.0%	003	40.0%	40.0%	80.0%	80 0%	80 0%	80.0%	100 0%	100 0%	100 0%		

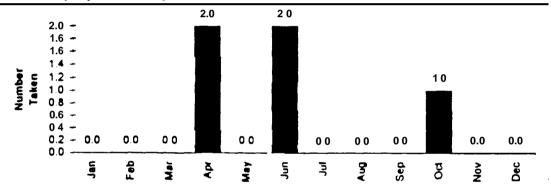
SEA LION HARVEST	BY AGE AND SEX	Reported		Estimated	
		By Sample	Percent	By Communey	Percent
		(Unespanded)		(Expanded)	
	Adult Male	1	33 3%	10	250%
ı	Adult Female	0	00%	0 0	0 0%
	Adult Unknown Sex	0	00%	0 0	00%
,	Juvenile Male	2	667%	30	750%
,	Juvenile Female	0	00%	0 0	00%
	Juvenile Unknown Sex	0	00%	0 0	00%
1	Pup Male	0	00%	0 0	00%
1	Pup Female	0	00%	0.0	0.0%
1	Pug Unknown Sex	0	00%	0 0	00%
1	Male Unknown Age	0	00%	0 0	0.0%
(Female Unknown Age	0	00%	0 0	0.0%
	Unknown Sex and Age	0	00%	0 0	00%
•	Total	3	1000%		100.0%

SOURCE. Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Marbor Seass in Alaska, with assistance from

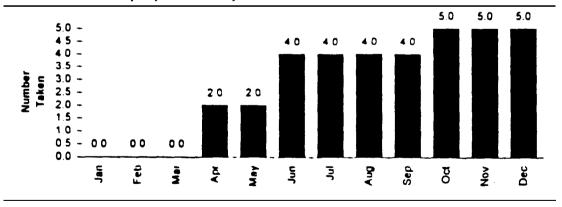
FIGURE 67. SEA LION (Eumetopies jubetus) TAKE ESTIMATES: PORT LIONS, 1993



B. Seasonally Adjusted Take By Month



C. Cumulrtiw Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for See Lone and Harbor Sears in Alaska, with assistance from the Port Lone. Tribal Council and City of Port Lone. 1994.

TABLE 88. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: PORT LIONS, 1993

SAMPLING DESIGN TWO STRATA

Active Other Total Total Native Households 7 52 59 Surveyed Households 7 26 33 Sampling Fraction 100 0% 50 0% 55 9% Sample Household Members 26 77 105 28 0 154 0 1620 Estimated Household Members

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households
Used 28 8%
Hunted 10 2%
Hervested 10 2%
Received 23 7%
Gave Away 10 2%

Community Hervest and Take (Expanded):
Total Number Hervested 26 0
Total Number Struck and Lost 10
Tow Number Taken 27 0
Number Hervested Per Capita 0 14

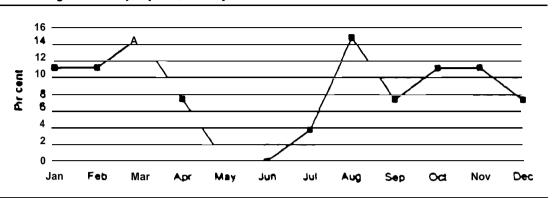
HARBOR SEA	L HARV	ESTBY	SEAS(ON								L	Inknown	
	-	fee	Ma ⁻	Aor	May		34	Aug	Sec	Oct	Nov	Dec	Month	Tou
PEPORTED HAPM	ES' NC	'ME IV!	ديمس	O√SE++	من وحات	EMPANOE:	D)						==:	
Marved	3	3			0	0	•		2	3	3	2	0	2
Struck and Loss	C	0	5	,	0	0	0	0	0	0	0	0	0	
Total Tare	3	3	•	2	<u> </u>		1	4	2	3	3	2	0	2
ESTIMATED HAPM	EST MO	-	-	m dor	MDEDI									
Harvest	3.0	10	4 C	' 0	oc	00	10	40	20	30	30	2.0	0.0	25
Struck and Loak	00	00	9.0	10	00	00	00	00	00	00	00	0.0	00	1.3
Total Take	3.0	30	• 0	2c	03	00	10	40	20	30	3. 0	2. 0	00	27.
ESTIMATED SEAS	ONALLY !	COUSTEE	HAPVES	- 400 TA	KE BY CO	MMUNITY	(EXPANDE	ED)						
Hervest	3 0	J0	4 0	10	сс	00	10	40	20	30	30	20		26
Struck and Loss	00	03	c c	٠ د	0.0	00	00	00	00	00	00	00		1
Tow Take	30	30	4 0	2 C	C C	00	Ι0	4 0	20	30	30	20		27.
Total Take (%)	11.1%	11.15	14 6%	7.4%	008	008	3 7%	14.6%	7.4%	11.1%	11.1%	7.4%		1001
Cumulative Taxe	1 0	6.0	10 c	128	120	120	130	170	190	P 0	250	27 0		
Cum Take (%)	11.1%	227	37 0%	48	44	44.4%	48 1%	63 0%	70 4%	815%	92 6%	100 0%		

HARBOR SEAL HARVEST BY AGE AND SW	Personed		Estimated	
	By Samore	Percent	By Community	Percent
	(Unexpended		(Expanded)	
Adult Molt	5	192%	50	192%
Adult Female	2	7 7%	2 0	7 1%
Adult Unknown Sex	6	231%	60	231%
Juvenile Male	6	231%	6 0	231%
Juvenile Female	4	154%	4 0	154%
Juvenile Unknown Sex	3	11.5%	30	115%
Pup Malt	0	00%	0 0	00%
Pup Female	0	00%	0 0	00%
Pup Unknown Sex	0	00%	0 0	00%
Malt Unknown Age	0	00%	0 0	00%
Female Unknown Age	0	0 0%	0 0	00%
Unknown Sex and Age	ō	0.0%	0.0	0.0%
Total	26	100 0%	26 0	100.0%

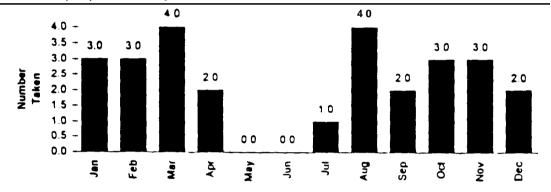
SOURCE

Alaska Department of Fran and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and marbor Sears in Alaska, with assistance from the Port Lions Tribal Council and City of Port Lions. 1994.

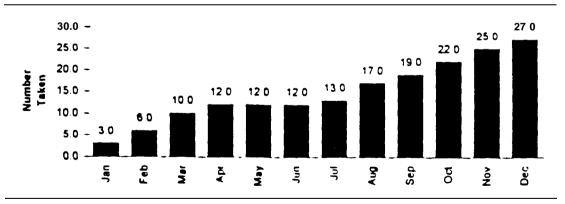
FIGURE 68. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: PORT LIONS. 1993



8. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fren and Game. Division of Subsistence: Subsistence Study and Montor System for See Lions and marbor Seets in Alaska, with assistance from the Port Lions Tribal Council and City of Port Lions. 1994.

SOUTH ALASKA PENINSULA

TABLE 88. SEA LION (Eumetopies jubatus) HARVEST AND TAKE ESTIMATES: CHIGNIK MY, 1993

SOURCE

Total Native Households 25
Surveyed Households 20
Sampling Fraction 80 0%
Sample Household Members 63
Estimated Household Members 78 8

SEA LION HARVEST AND USE INFORMATION

Percent or Native Households

Used 0 0 %

Hunted 0 0 %

Total Number Harvested 0.0

Harvested 0 0 %

Total Number Struck and Lost 0 0

Harvested 0 0 %

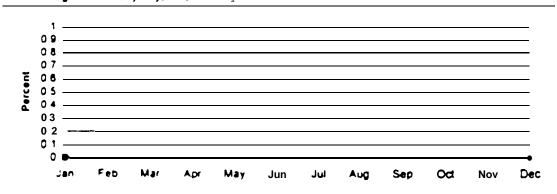
Received 0 0%

Gave Away 0 0%

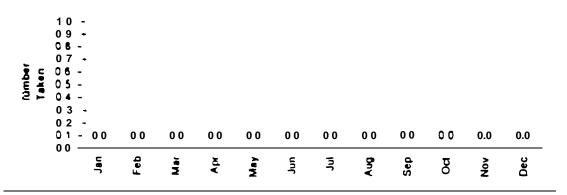
SEA LION HAI	RVEST E	BY SEAS	SON									L	inknown	
	Jen	Feb	Mar	Aor	May	.un		4.0	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND T	AKE BY SA	WPLED !	+Ouse++	DLDS (UN	ENPANDE))							
Hervest	0	0	0	0	0	0	0	0	0	0	0	0	0	
Struck and Loss	0	0	0	0	C	C	3	0	0	0	0	0	0	(
Total Take	0	0	0	0	0	C	0	0	0	0	0	0	0	(
ESTIMATED HARV	EST AND T	AKE BY C	OMMUNI	TY (EXPA	NDED									
Harvest	00	0.0	00	00	00	CO	00	00	00	00	00	00	00	00
Struck and Lost	00	00	00	00	oc	00	00	00	00	00	00	0.0	0.0	00
Total Take	0.0	00	00	00	00	00	00	00	00	00	00	00	00	00
ESTIMATED SEASO	DNALLY AC	JUSTED	HARVEST	TAND TA	KE BY CO	MMUNITY	(EXPANDE	D)						
Hervest	0. 0	0.0	00	00	00	00	00	00	00	00	00	00		00
Struck and Lost	00	00	00	00	oc	OC	00	00	00	00	00	00		00
Total Take	00	00	oc	00	co	oc	00	00	00	00	00	00		00
Tow Take (%)														
Cumulative Take	00	00	00	00	oc	oc	00	00	00	00	00	00		
Cum Take (%)	0.0%	0.0%	00	0.0%	0.0%	ст	00%	00%	000	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sampre	Percent	By Community	Percent
	Decreased		(Expended)	
Adult Male	0	-	00	_
Adult Female	0	-	00	
Adult Unknown Sex	0	_	00	_
Juvenile Male	0	-	00	
Juvenile Female	0		00	-
Juvenile Unknown Sex	0		00	_
Pup Male	0		00	-
Pup Female	С		00	
Pup Unknown Sex	0		00	
Male Unknown Age	0	_	00	-
Female Unknown Age	0		00	-
Unknown Sex and Age	0	_	00	
Total	0	_	00	

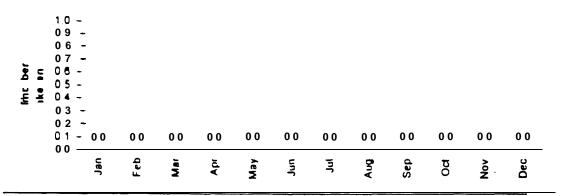
Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seas in Alaska, with easistance from the Chignist Bey Traditional Witage Council. 1994.



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Bay Traditional Vikage Council. 1994.

TABLE 70. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: CHIGNIK BAY, 1993

Total Native Households 25
Surveyed Households 20
Sampling Fraction 80.0%
Sample Household Members 63
Estimated Household Members 78.1

HARBOR SEAL HARVEST AND USE INFORMATION

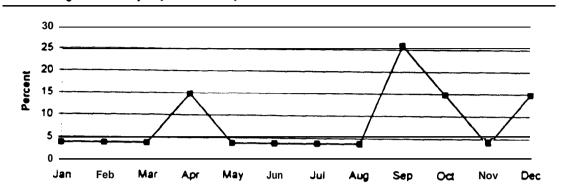
Percent Of Native Households.	Estimated Community Harvest and Take (Expand)	ed)
used 20.0%	Total Numotr Harvested	6.3
Hunted 15.0%	Total Number Struck and Los	S 0
Harvested 15.0%	Total Number Taken	11.3
Received 5.0%	Number Harvested Per Capita	0 08
Gave Away 10.0%		

IARBOR SEAL		_	CLAC	J. •								U	nknown	
		Feb	Mar	Apr	May	ميد	ابط	Aug	Seo	Oes	Nov	Dec	Month	Total
EPORTED HARVE	ST AND T	AKE BY S	MPLED	HOUSEH	OLDS IUN	EXPANDE	D)					·		
*tervest	٥	0	0	1	٥	٥	0	٥	2	1	0	1	0	5
Struck and Lost	0	0	0	0	0	٥	0	0	0	0	0	0	4	4
Total Take	0	0	0	1	0	0	0	0	2	1	0	1	4	9
STIMATED HARVE	EST AND	TAKE BY	COMMUN	MY (EXP	MDEDI									
tervest	00	0.0	00	13	00	00	00	0.0	2 5	1.3	0.0	1.3	0.0	6.3
Struck and Lost	0.0	0.0	00	0.0	00	0.0	00	0.0	00	0.0	0.0	0.0	5.0	5.0
Total Take	0.0	0.0	0.0	13	00	0.0	٥٥	00	2.5	13	0.0	1.3	5.0	11.
ESTIMATED SEASO	NALLY A	WUSTE	HARVES	T AND TA	KE BY CO	MMUNITY	(E)PANDE	EDI						
Harvest	0.0	00	0.0	13	00	0.0	0.0	00	25	1.3	0.0	1.3		6.;
Struck and Lost	04	04	0.4	0.4	0.4	0.4	04	0.4	D 4	04	0.4	04		5.0
Total Take	0.4	0.4	04	17	04	04	04	04	2.9	17	04	17		11.2
low Take (%)	3.7%	3.7%	37%	14 8%	3 7%	37%	3n	37%	25 9%	14 8%	3.7%	14 8%		100%
Cumulative Taire	04	0.8	13	29	3 3	38	42	46	75	92	96	11.3		
Cum Take (%)	3.7%	74%	11.1%	25 9%	29 6%	3338	37.0%	40.7%	66n	815%	6528	100 0%		

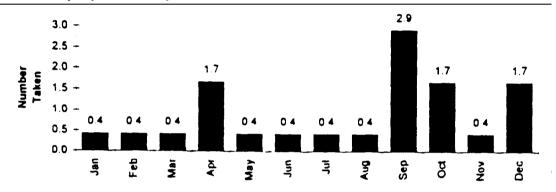
HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	Ву Ѕалтоне	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	1	200%	13	200%
Mun Female	0	00%	0 0	00%
Adult Unknown Stx	1	200%	13	20 0%
Juvenile Male	2	40 0%	2 5	400%
Juvenile Female	0	0.0%	0 0	00%
Juvenile Unknown Sex	1	200%	13	20 0%
Pup Male	0	00%	0 0	00%
Pup Female	0	00%	0 0	00%
Pup Unknown Sex	0	00%	0 0	o o n
Molt UnknownAge	0	00%	0 0	00%
Female Unknown Age	0	00%	0 0	00%
Unknown Sex and Age	0	0.0%	0 0	00%
Total	5	100 0%	6.3	100.0%

SOURCE

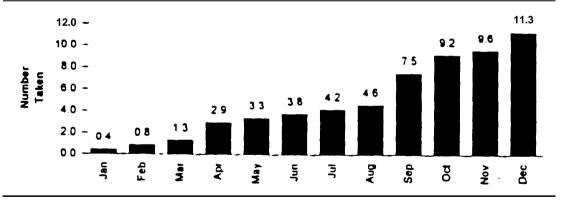
Alaska Department of Fish and Game. Division of Subaistence: Subaistence Study and Monitor System for Sea Lions and Marbor Seals in Alaska: with assistance from the Chignik Bay Traditional Village Council: 1994.



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Bay Tradroonal Village Council. 1994.

TABLE 71. SEA LION (Eumetopias jubetus) HARVEST AND TAKE ESTIMATES: CHIGNIK LAGOON, 1993

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
55 5

SEA UON HARVEST AND USE INFORMATION

Percent Of Native Households: Estimated Community Harvest and Take (Expanded):

Used 6.7% Total Number Harvested 1.1

Hunted 6.7% Total NumberStruck● indLost 0.0

Harvested 6.7% Total Number Taken 1.1

Received 0.0% Number Harvested Per Capita 0.02

Gave Away 0.0%

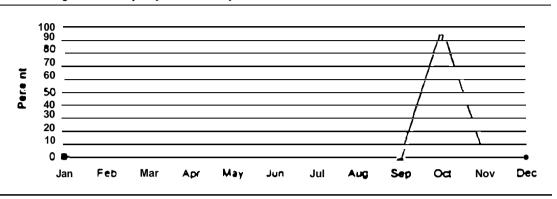
SEA UON HAF	RVEST E	Y SEA	SON									U	Inknown	
	Jan	Feb	Mar	Apr	May	Jun	146	Aug	Sec	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND T	AKE BY S	AMPLED !	HOUSEH	DLDS IUNI	DOPANDED	ול							
Hervest	0	0	0	0	0	0	0	0	0	1	0	0	0	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Total Take	0	0	0	0	0	0	0	0	0	1	0	0	٥	
ESTIMATED HARM	EST AND	TM SY C	OMMUNE	TY (E)(PA	NDEDI									
Hervest	00	0.0	00	00	00	00	00	00	00	1 🔻	0 0	0.0	0.0	3 1
Struck and Lost	00	00	0.0	00	00	00	00	00	00	00	0 0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	00	00	00	00	00	00	1.1	0 0	0 0	0 0	1 1
ESTIMATED SEASO	DNALLY A	S USTED	HARVES!	AND TA	Œ BY CO	MUNITY	EDPANDE	(D)						
Hervest	0.0	0.0	0.0	00	00	00	00	00	00	1.1	0.0	0 0		1 1
Struck and Lost	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0		0 0
Total Take	0.0	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	1.1	0 0	0 0		1 1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	00%	0.0%	0.0%	100 0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 1	11	1 1		
Cm Take (%)	0.0%	008	0.0%	00%	00%	008	0.0%	0.0%	00%	100 0%	100.0%	100.0%		

SEA UON HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	100 0%	1 1	100.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Malt	0	0 0%	0.0	0.0%
Juvenile Female	0	0.0%	0 0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0 0	0 0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	00%	0	0.0%
Total	1	1000%	111	100096

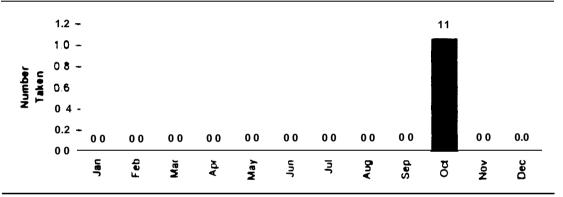
SOURCE:

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Hisrbor Seals in Alaska, with assistance from the Chignik Lagoon Traditional Village Council, 1994.

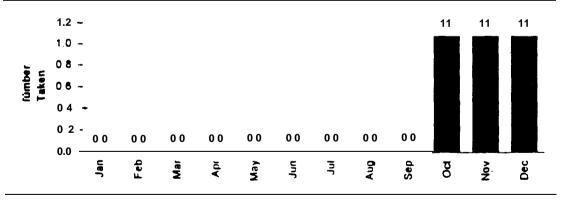
FIGURE 71. SEA LION (Eumetopias jubetus) TAKE ESTIMATES: CHIGNIK LAGOON, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alasks Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lagoon Traditional Village Council. 1994.

TABLE 72 HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: CHIGNIK LAGOON, 1993

Total Native Households 16 Surveyed Households 15 93 8% Sampling Fraction Sample Household Members 52 Estimated Household Members 55 **S**

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households: E Community Harvest and Take (Expanded). Used 200% Total Number Harvested 4 3 Hunted 20 0% Total Number Struck and Lost Harvested 20.0% Total Number Taken 5 . 3 Received 0.0% Number Harvested Per Capita 0.06 Gave Away 0 0%

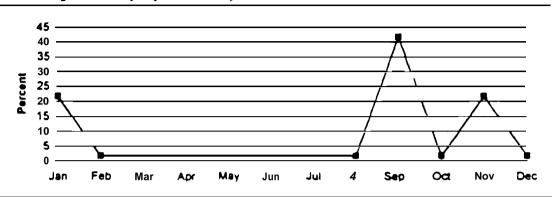
HARBOR SEA	L HARV	EST BY	' SEASC	ON		•	•	•			•	ί	inknown	1
	Jen	Feb	Mar	Aor	Mey	ميز	نبذ	Aug	Seo	Oct	Nov	Dec	Month	Tou
REPORTED HARM	EST AND	TAKE BY S	SAMPLED	HOUSEH	OLDS (UN	EXPANDE	O)							
Hervest	1	0	0	0	0	0	0	0	2	0	1	0	0	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	1	
Total Take	1	0	0	0	0	0	0	0	2	0	1	0	1	
ESTIMATED HARV	EST AND	TAKE BY	COMMUN	ITY (EXP	ANDED:									
Harvest	1.1	0.0	0 0	0 0	0 0	0 0	0 0	0 0	2 1	0 0	1.1	0 0	0.0	4
Struck and Lost	0.0	0.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	1.1	1 1
Total Take	1 1	0.0	0 0	0 0	0 0	0 0	0 0	0 0	2 1	0.0	11	0.0	11	5.
ESTIMATED SEAS	ONALLY	ADJUSTED	HARVES	T AND TA	KE BY CO	MMUNITY	(EPANO)	ED)						
Harvest	11	0.0	0 0	0 0	0 0	0 0	0 0	0 0	2 1	0 0	11	0 0		4
Struck and Lost	0 1	0.1	0 1	01	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1		1
Total Take	1 2	0.1	0 1	0 1	0.1	01	01	0.1	2 2	0 1	1.2	0 1		5.
Total Take (%)	21.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	41 n	i n	21.7%	1.7%		1001
Cumulative Take	1 2	1 2	13	1.4	15	1.6	1 7	1.8	40	4.1	5.2	5.3		
Cum Take (%)	21.7%	23.3%	25.0%	26 7%	22.38	30 0%	31.7%	33 3%	75.0%	76 7%	98.3%	100 0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	4	100 0%	4 3	100.0%
Adult Female	0	0.0%	0 0	0 0%
Adult Unknown Sex	0	0.0%	0 0	0 0%
Juvenile Male	0	0.0%	0 0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0 0%
Pup Male	0	0.0%	0 0	0.0%
Pup <i>Female</i>	0	0.0%	0 0	0 0%
Pup Unknown Sex	٥	0 0%	0.0	0 0%
Male Unknown Age	0	0.0%	0 0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	4	100 0%		100.0%

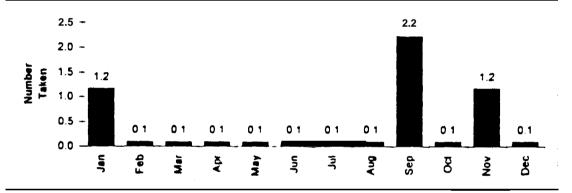
SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study. and Monitor System for Sea Lions and Herbor Seals in Alaska, with assistance from the Chignik Lagoon Traditional Wilage Council, 1994

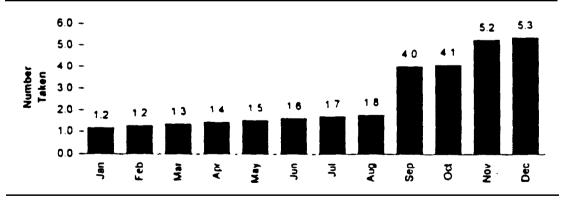
FIGURE 72. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: CHIGNIK LAGOON, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for See Lions and Harbor Seate in Alaska: with assistance from the Chignist Lagoon Traditional Village Council. 1994.

TABLE 73. SEA LION (Eurnetopies judetus) HARVEST AND TAKE ESTIMATES: CHIGNIK LAKE, 1993

Total Native Households 38
Surveyed Households 28
Sampling Fraction 72.2%
Sample Household Members 109
Estimated Household Members 150.9

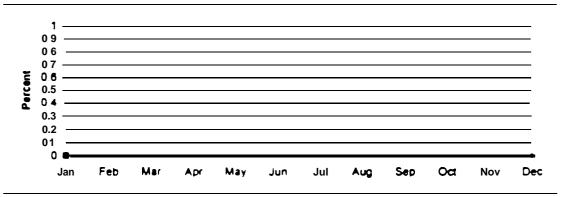
SEA LION HARVEST AND USE INFORMATION

Percent Of Native House	enoids	Estimated Community Harvest and Take (Expande					
Used	0 0%	Total Number Harvested	0.0				
Hunted	0 0%	Total Number Struck and Lost	0.0				
Hervested	0.0%	Total Number Taken	0.0				
Received	0 0	Number Harvested Per Capita	0.00				
Gave Away	0.0%						

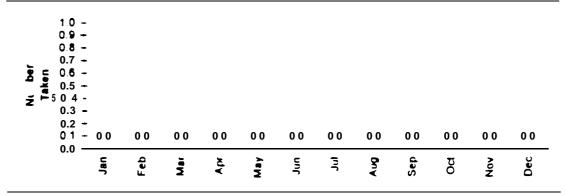
SEA LION HAR	VESTE	Y SEAS	ON										Inknown	
		Leo	بيها	A _O r	Mey	ميد	مد	Ava	See	Oca	Nov	Desc	Month	Total
REPORTED HARVE	5" 440 1	ME 87 5	MATE: H	OUSEHO	NUS (UN	EDP ANDE	<u> </u>							
Hervest	0	C	С	0	0	0	0	0	0	0	0	0	0	0
Struct and Loss	0	0	0	c	0	С	a	0	0	0	0	0	0	0
Total Tare	0	0	o	0	0	0	0	0	0	0	0	0	0	Q
ESTIMATED HARM	EST AND	TAKE BY C	THUMMC:	~ (E)0°A	NDEDI									
Harvest	0 0	30	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0	0 0
Struct and Loss	0 0	00	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0
Total Taxe	٥٥	0 0	30	00	0 3	0 0	0 0	0 0	0 0	0 0	0.0	0.0	0 0	0.0
ESTIMATED SEASO	DHALLY A	DJUSTED	HARVEST	ANC TA	E BY CO	MANUNITY	(EPPANC	ÆD1						
Hervest	0 0	00	00	ос	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0		0 0
Struck and Loss	0 0	00	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0		0 0
Total Taxe	0 0	0 0	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		0 0
Tow Take (%)														
Cumulative Take	0 0	00	00	0 0	0 0	СО	0 0	0 0	0 0	0 0	0 0	0 0		
Cum Take (%)	0.0%	000	00	00%	008	0.0%	cm	00%	000	00	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX	Denoge ^Q		Estimated	
	By Samore	Percent	By Community	Percent
	(Unexpanded		(Expanded)	
Adult Male	0		0 0	
Adult Female	0		0 0	-
Adult Unknown Sex	0		0 0	
Juvenile Maie	0	_	0 0	_
Juvenile Female	0		0 0	
Juvenile Unknown Sex	0	_	0,0	_
Pup Male	0	_	0 0	
Puo Female	0		0 0	
Pup Unknown Sex	0	-	0 0	_
Male Unknown Age	0	_	0 0	_
Female Unknown Age	0	_	0 0	_
Unknown Sex and Age	0	_	0 0	_
Total	0	_	0 0	_

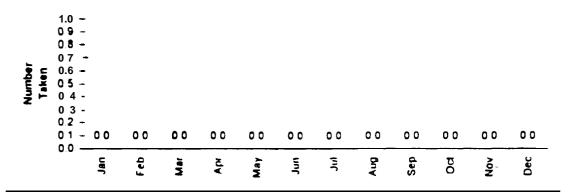
SOURCE. Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for See Lions and marbor Seals in Alaska: with assistance from



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Montor System for See Lions and Harbor Seets in Alaska, with assistance from the Chignis Lake Traditional Wilege Council. 1994.

TABLE 74. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: CHIGNIK LAKE, 1993

Total Native Households 36
Surveyed Households 26
Sampling Fraction 72.2%
Sample Household Members 109
Estimated Household Members 150.9

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households.

Used 84.6%

Humted 3 6 5%

Harvested 19.2%

Received 84.6%

Received 84.6%

Gave Away 69.2%

Estimated Community Harvest and Take (Expanded)

Total Number Harvest and Lost 5.5

Total Number Struck and Lost 5.5

Total Number Taken 20.6

Number Harvested Per Capita 0.10

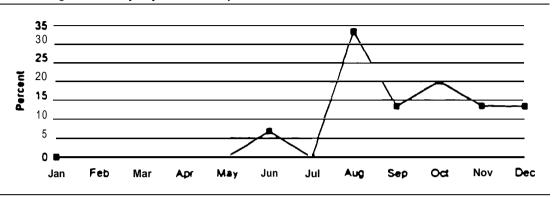
HARBOR SEA	L HARV	EST BY	SEASO	N								L	inknown	
	nat	Feb	Mer	Apr	May	Jun	ابعد	4	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARV	EST AND	TAKE BY S	AMPLED I	HOUSEHO	XLDS (UNE	DOPANOED)							
Harvest	0	0	0	0	0	1	0	3	,	2	2	2	0	11
Struck and Lost	0	0	0	0	0	0	0	2	1	1	0	0	0	4
Total Take	0	0	0	0	0	1	0	5	2	3	2	2	0	15
ESTIMATED HA	RVESTANI	DTAKEBY	COMMUN	TY (EXPA)	NDED)									
Harvest	0.0	0.0	00	00	0.0	14	00	4 2	1 4	2.8	28	2.8	0.0	15.2
Struck and Loss	0.0	0.0	0 0	0 0	0 0	0 0	0 0	2.8	14	1.4	00	0.0	0.0	5.5
Total Take	00	0.0	00	00	00	1.4	00	6 9	2.8	4 2	2.8	2 4	0.0	20.6
ESTIMATED SEAS	ONALLY A	UUUSTED	HARVEST	AND TAK	E BY COA	AMUNITY (EXPANDE	D)						
Harvest	0.0	0.0	0.0	0 0	00	1.4	00	42	14	2.8	2.8	2.8		15.2
Struck and Lost	0 0	0.0	0.0	0 0	00	00	0 0	2.8	14	1 4	00	00		5.5
Total Take	0.0	0.0	0 0	0 0	0 0	1.4	0 0	6.9	28	4 2	2.1	28		8.8
Total Take (%)	0.08	0.0%	0.0%	00%	0.0%	67%	00	3338	13.3%	20.0% 1	3 3 %	1 3 3 8		100%
Cumulative Take	0.0	0.0	0 0	0 0	0 0	1.4	1.4	8.3	11 1	15.2	180	20 8		
Cum Take (%)	0.0%	0.0%	0.0%	00%	0.0%	67%	67%	40.0%	53.3%	73.3%	86 7%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sampre	Percent	By Community	Percent
	(Unexpended)		(Expended)	
Adult Male	6	54 5%	6 3	545%
Adult Female	0	00%	0 0	00%
Adult Unknown Sex	3	27 3%	4 2	27.3%
Juvenile Male	0	00%	0 0	00%
Juvenik Female	0	00%	0 0	0.0%
Juvanik Unknown Sex	2	18 2%	2.8	18.2%
Pup Male	0	0.0%	0 0	00%
Pup Female	0	0.0%	0 0	00%
Pug Unknown Sex	0	00%	0 0	0 O W
Male Unknown Age	0	0.0%	0 0	00%
Female Unknown Age	0	0.0%	0 0	0.0%
Unknown Sex and Age	0	00%	0 0	0 0 %
Total	11	1000%		1000%

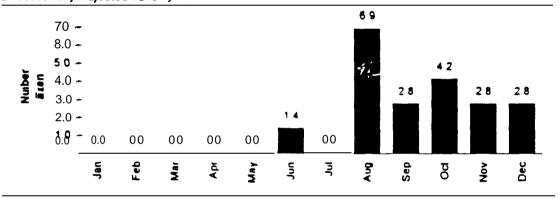
SOURCE Alaska Department of Fish and Game. Division of Subarsence, Subarstence Study and Monitor Syssem for Sea Lions and Harbor Seals in Alaska, with assistance from

the Chignik Lake Traditional Wkage Council, 1994.

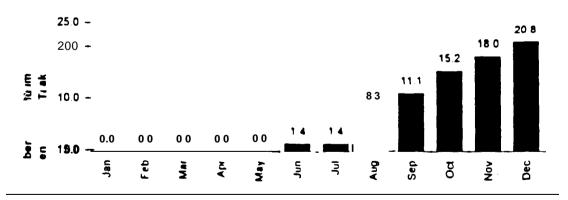
FIGURE 74. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: CHIGNIK LAKE, 1 993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Montor System for See Lions and Harbor Seas in Alaska, with assistance from the Chignik Lake Traditional Village Council. 1994.

TABLE76. SEA LION (Eumetopias judetus) HARVEST AND TAKE ESTIMATES: FALSE PASS, 1993

Total Native Households 20
Surveyed Households 20
Sampling Fraction 1000%
Sample Household Members 60
Estimated Household Members 60 0

SEA LION HARVEST AND USE INFORMATION

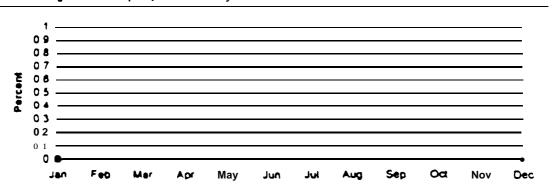
Percent or Native Hous	seholds	Estimated Community Harvest and Take (Expande):
Used (00%	Total Number Harvested	0.0
Hunted	0.0%	Total Number Struck and Lost	0 0
Harvested	00%	Total Number Taken	0.0
Received	00%	Number Harvested Per Capita	0 00
Gave Away	0 0%		

SEA LION HAP	RVEST	BY SEA	SON									U	nknown	
	العال	Feb	Mar	Apr	May	مىر	مد	Aug	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND 1	AKE BY S	AMPLED !	+OUSEH	DUDS IUM	DOMANOE!)ı							
Harvest	0	0	0	0	С	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	٥	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATEDHARVE	ST AND) TM eve	COMMUN	TY (E)(PA	NDED									
Hervest	00	0.0	00	00	00	00	00	00	00	00	0.0	0.0	0.0	0.0
Struck and Lost	00	00	00	00	00	00	00	DO	00	00	0.0	0.0	0.0	0.0
Total Take	00	0.0	00	00	00	00	00	00	00	00	00	0.0	0.0	0.0
ESTIMATE SEASO	NALLY A	JUSTED	HARVEST	AND TA	CE BY CO	MMUNITY	EXPANDE	۵ı						
Harvest	00	00	00	00	0 C	00	0 0	00	00	00	00	00		00
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	00		00
Total Take	00	00	00	00	00	00	00	00	00	00	00	0.0		00
Total Take (%)														
Cumulative Take	0.0	0.0	00	00	OC	00	00	00	00	00	00	00		
Cum Take (%)	0.0%	0.0%	0.0%	c os	0.0%	cm	C DN	00	0.0%	0.0%	00%	0.0%		

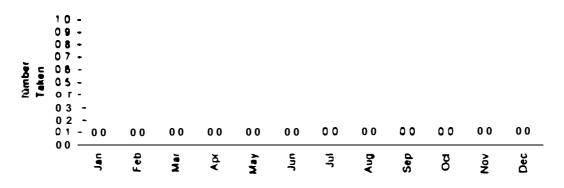
SEA LION HARVEST BY AGE AND SEX	Peported		Estimated	
	By Semow	Percent	By Community	Percent
	(Unespanded		(Expanded)	
Adur Male	0	_	00	
Adult Female	0		00	-
Adult Unknown Sex	0		00	_
Juvenile Mate	С		00	_
Juvenile Female	0		00	-
Juvenile Unknown Se ≖	0		00	_
Pup Male	0		00	
Pup Fcmrk	0	_	00	
Pup Unknown Sex	0	_	00	
Maie Unmown Age	0	_	00	_
Female Unknown Age	0	_	00	
Unknown Se x and Age	Ō	_	00	-
Total	0	-	00	-

SOURCE

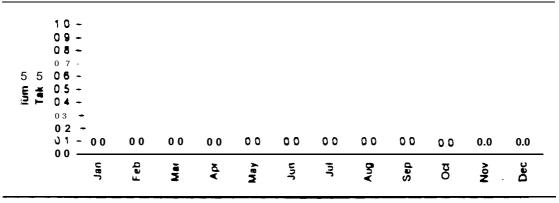
Alaska Department of Fish and Game. Division of Subaistance: Subaistance Study and Monitor System for Sea Lions and Hardor Seas in Alaska, with assistance from the False Pass Tribal Council and City of False Pass. 1994.



8. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Luons and Harbor Sears in Alaska, with assistance from the False Pass. Tribal Council and City of False Pass. 1994.

TABLE 76. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: FALSE PASS, 1993

SAMPLING DESIGN: CENSUS

Total Native Households

Surveyed Households

Sampling Fraction

Sample Household Members

Estimated Household Members

60

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households
used 65.0%

Humted 30.0%

Harvested 30.0%

Received 4.0.0%

Total Number Harvested 19.0

Total Number Struck and Lost 0.0

Total Number Taken 19.0

Number Harvested Per Capita 0.32

Gave Away 40.0%

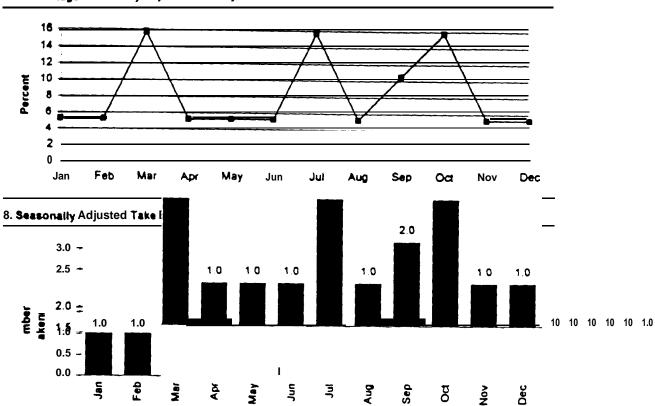
HARBOR SEAL	. HAR\	/EST B Y	/ SEAS(ON								L	Inknown	
	مهر	Feb	Mar	Apr	May	مريد	امال	Aug	Sec	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND	TM BY S	AMPLED	HOUSEH	OLDS (UN	EXPANCE	D)							
Hervest	1	1	3	1	1	1	3	1	2	3	1	1	0	19
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	1	3	1	1	1	3	1		2 3	1	1	0	19
ESTIMATED HARVE	ST AND	TAKE BY	COMMUN	MY (EXPA	WDED)									
Hervest	1 0	1.0	3 0	10	10	1 0	3 0	10	2.0	30	10	10	0.0	180
Struck and Lost	0.0	0.0	00	00	00	00	00	00	00	00	00	00	0.0	00
Total Take	1.0	1.0	3 0	10	10	10	3 0	10	20	30	10	1.0	0 0	190
ESTIMATED SEASO	NALLY A	NOJUSTE!	HARVES	TANDTA	KE BY CO	MMUNITY	(EXPANDE	DI						
Harvest	1. 0	10	30	10	10	10	30	10	20	30	1. 0	10		190
Struck and Lost	0 0	0.0	0 0	00	ОС	0 0	0 0	00	00	00	00	0 0		0 0
Total Take	1.0	1.0	3 0	10	10	10	3 0	10	20	3.0	10	1 0		190
Tow Take (%)	5.3%	4.38	15.8%	5.3%	5 3%	5.3%	15.8%	5.3%	10.5%	15.8%	5.3%	s.38		100%
Cumulative Take	1.0	2.0	s o	00	70	80	110	120	140	17 0	18.0	19.0		
C m Take (%)	5 3 8	10.5%	26 3%	31 6%	36 8%	42 1%	57 9%	63.2%	73 7%	89 5%	94.7%	100 0%		

HARBOR SEAL HARVEST BY ACE AND SEX	Reconed		Esometed	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	105%	to	105%
Adult Female	0	00%	0 0	0.0%
Mull unknown sex	16	84 2%	160	842%
Juvenile Male	0	00%	0 0	00%
Juvenile Female	0	0.0%	0 0	00%
Juvenile Unknown Sex	0	0 0%	0 0	0.0%
Pup Male	0	00%	0 0	00%
Pup Female	0	0 0%	0 0	0 0%
Pup Unknown Sex	0	00%	0 0	0.0%
Male Unknown Age	0	00%	0 0	00%
Female Unknown Age	0	00%	0 0	0.0%
Unknown Sex and Age	1	5 3%	1.0	5.3%
Total	19	100 0%	19.0	100.0%

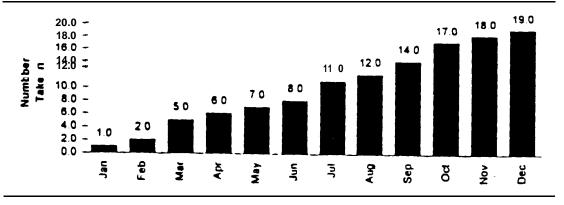
SOURCE

Aleaka Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Aleaka. with assistance from the False Pase Tribal Council and City of False Pase. 1994.

FIGURE 78. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: FALSE PUS. 1993



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Montor System for Sea Lions and Harbor Seals in Alaska, with assistance from the False Pass Tribal Council and City of False Pass. 1994.

TABLE 77. SEA LION (Eurnetopias jubetus) HARVEST AND TAKE ESTIMATES: IVANOF BAY, 1993

Total Native Households 7
Surveyed Households 6
Sampling Fraction 85 7%
Sample Household Members 26
Estimated Household Members 30.3

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households
Used 50.0%
Total Number Harvested 2.3
Hunted 66.7%
Total Number Struck and Lost 1.2
Harvested 33.3%
Received 16.7%
Number Harvested Per Capita 0.08

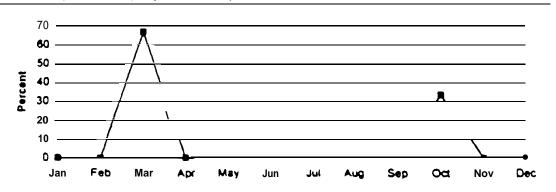
SEA LION HAR	VEST 8	Y SEAS	SON									Ĺ	nknown	
	Jan	Feb	Mer	Apr	May	مناز	ابد	4	Sep_	O ci	Nov	Dec	Month	Total
REPORTED HARVES	ST AND T	AKE BY SA	MPLED H	OUSEH	DLDS (UNE	DOMANDE	٥							
Harvest Struck and Lost Total Take	0 0	0 0	1 1 2	0 0	0 0 0	0 0 0	0 0 0	° ° O	0	0 0	0 0	0 0	0 0	2 1 3
ESTIMATED HARVE	ST AND T	AKE BY C	OMMUNE	TY (EXPA	NDED)									
Harvest Struck and Lost Total Take	0.0 00 00	00 00 00	12 1 .2 23	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	0.0 0.0 00	00	00 00	00 00 0 0	00 0.0 0.0	2.3 12 3 5
ESTIMATED SEASO	NALLY A	JUSTED	HARVEST	AND TA	KE BY COI	MUNITY	(E)PANDE	(D)						
Harvest Struck and Lost Total Take Total Take (%) Cumulative Take Cum Take (%)	0.0 0.0 0.0 0.08 0.0 008	0.0 0.0 0.08 00	1.2 12 2.3 eon 2.3	00 00 00 23	00 00 00 008 2 3	00 00 00 00 2 3	00 00 00 00 2 3	00 00 00 00 2 3	00 00 00 00 23	1.2 0.0 1.2 33.3% 3.1	0.0 0.0 00 0.0% 3.5	00 00 00 008 3.s		2 3 1.2 3 5 100%

SEA LION HARVEST BY AGE AND SW	Реропе		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	00%	0 0	00%
Adult Female	0	00%	0 0	00%
Adult Unknown Sex	0	00%	0 0	00%
Juvenik Male	0	00%	0 0	00%
Juvenik F emale	0	00%	0 0	00%
Juvenik Unknown Sex	2	1000%	2.3	100 0%
Pup Male	0	00%	0.0	00%
Pup Female	0	00%	0 0	00%
Pup Unknown Sex	0	00%	0 0	0.0%
Male Unknown Age	0	00%	0 0	00%
Female Unknown Age	0	00%	0 0	0.0%
Unknown Sex and Age	0	00%	0 0	00%
Totai	2	1000%	2.3	100.0%

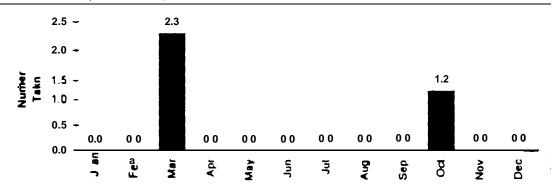
SOURCE.

Alaska Department of Fish and Game, Division of Subaistance. Subaistance Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanot Bey Traditional Wilege Council. 1994.

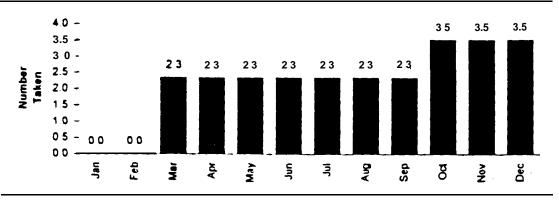
FIGURE 77. SEA LION (Eumetopies jubetus) TAKE ESTIMATES: NANOF BAY, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seats in Alaska, with assistance from the Ivanof Bay Traditional Village Council. 1994.

TABLE 78. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: IVANOF BAY, 1993

SAMPLING DESIGN: CENSUS

Total Native Households 7
Surveyed Households 6
Sampling Fraction 85 7%
Sample Household Members 26
Estimated Household Members 30 3

HARBOR SEAL HARVEST AND USE INF ORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expande	ed).
Used 63.3%	Total Number Harvested	163
Hunted 1000%	Total Number Struck and Lost 4	1 7
Harvested 833%	Tow Number Taken	21.0
Received 83.3%	Number Harvested Per Capita	0.54
Gave Away 83.3%		

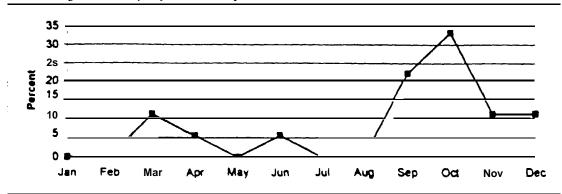
HARBOR SEAL	HARV	EST BY	SEASO	ON								Ĺ	nknown	⁻ 1
	Jen	Feb	Mer	Apr	May	احط	برو	4	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND	TAKE BY	SAMPLED	HOUSEH	IOLDS (UN	EXPANDE!	וכ							
Harvest	0	0	1	1	0	1	0	0	3	4	2	2	0	14
Struck and Lost	0	0	1	0	0	0	0	0	1	2	0	0	0	4
Total Take	0	0	2	1	0	1	0	٥	4	6	2	2	0	18
ESTIMATEDHARVE	ST AND	TAKEBY	COMMUN	ITY (EXP	NDED)									
Hervest	0.0	0.0	1.2	1.2	00	1.2	00	00	3.5	47	2.3	2.3	0.0	16.3
Struck and Lost	0.0	0.0	1.2	00	00	00	00	00	1.2	2.3	0.0	0.0	0.0	47
Total Take	0.0	00	2.3	1 2	00	12	0.0	00	47	7 0	2.3	2.3	0.0	210
ESTIMATED SEASO	MALLY A	QUUSTE	HARVES	T AND TA	KE BY CO	MMUNITY	(E) PANOE	IO:						
Harvest	0.0	0.0	1.2	1.2	00	'2	00	00	3.5	4 7	2.3	2.3		16.3
Struck and Lost	00	00	12	00	00	00	00	00	1.2	23	0.0	00		47
Total Take	0 0	0.0	23	12	00	12	00	00	4.7	7 0	2.3	2.3		21.0
Total Take (%)	0.0%	0.0%	11.15	5 6%	00%	5 6%	0.0%	00%	22 2%	33.3%	11 1%	11 1%		100%
Cumulative Take	0.0	0.0	2.3	3 5	3 5	47	4 7	4 7	93	163	16.7	21.0		
Cum Take (%)	0.0%	0.0%	11.1%	167%	16.7%	PA	PA	22 2%	44 5%	77 8%	88.9%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Samore	Percent	By Community	Percent
	(Unexpanded)		(Expended)	
Adult Male	2	14 3%	2.3	1 4 3 %
Adult Female	0	0 0%	0 0	0 0 %
Adult Unknown Sex	3	21 4%	3 5	21 4%
Juvenile Male	1	7 1%	12	7 1%
Juvenile Female	2	14 3%	2 3	14.3%
Juvenik Unknown Sex	S	35 7%	5 8	35.7%
Pup Maie	0	00%	0.0	0.0%
Pup Female	0	00%	0 0	00%
Pup Unknown Sex	0	00%	0 0	00%
Male Unknown Age	0	00%	0 0	00%
Female Unknown Age	0	00%	0 0	00%
Unknown Sex and Age	1	7 1%	1.2	7 1%
Total	14	100 0%	16.3	100.0%

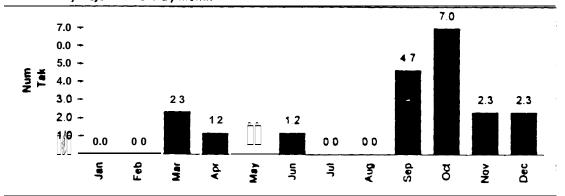
SOURCE.

Alaska Department of Fish and Game. Division of Subastance, Subastance Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ivanof Bey Traditional Wilage Council, 1994.

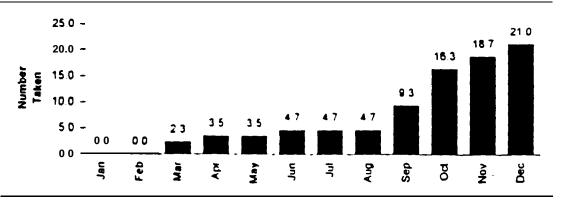
FIGURE 78. HARBOR SEAL (Phoca vituline) TAKE ESTIMATES: NANOF BAY, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for See Lions and Harbor Seats in Alaska, with assistance from the Hanol Bay Traditional Wilage Council. 1994.

TABLE 79. SEA LION (Eurnetopias jubetus) HARVEST AND TAKE ESTIMATES: KING COVE. 1993

SAMPLING DESIGN TWO STRATA

Active Other Total Total Native Households 14 103 117 Surveyed Households 12 26 38 Sampling Fraction 85 7% 25 2% 3 2 5 % Sample Household Members 45 89 134 Estimated Household Members 52 5 352 6 405 1

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Hous	enoids	E	-	Community Harvest and Take (Ex	:panded):
Used	3 0%			Total Number Harvested	1.2
Humed	1.0%			Total Number Struck and Lost	00
Delzevnen	1.0%			Total Number Taken	1.2
Received	3 0%			Number Harvested Per Capita	0.00
Gave Awey	1.0%				

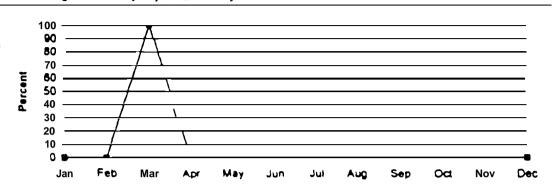
SEA UON HAR	VEST	BY SEA	ASON									·	Jakaowa	
		F-00	-	Aor	Mey	مد	سد	Aug	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HAPVE	\$7 MC	ME BY	وعرصيبو	HOUSEH	ous (u	NEOP MOI	Di							
Harvest	0	0	•	0	0	0	0	0	0	0	0	0	0	1
Struct and Loss	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Tame	0	0	1	0	0	0	0	0	0	0	0	0	0	1
ESTIMATED HAPM	EST AND	TAKE BY	COMMUN	(E)	ANDED:									
Hervest	0 0	0 0	12	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0	1 2
Struct and Loss	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0.0
Total Tare	0 0	0 0	12	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	1.2
ESTIMATED SEASO	DAME Y	DJUSTE	DHANES	T AND TA	KE BY CO		POPANO	ED)						
Marvest	0 0	0 0	12	0 0	СО	0 0	0 0	0.0	0 0	0 0	0 0	0 0		1 2
Struck and Lost	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	C 0	0 0	0 0		0 (
Total Take	0 0	0 0	1.2	0 0	0 0	0 C	0 0	0 0	0 0	0 0	0 0	0 0		1.2
Total Take R I	00	0.0%	100 0%	00	OR	00	0.0%	000	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0 0	0 0	' 2	1 2	1.2	1.2	1.2	1.2	1.2	1.2	1 2	1 2		
Cum Take (%)	0.0%	00%	100 0%	100.0%	100.0%	100 0%	100.0%	100 0%	100 0%	100 0%	100 0%	100.0%		

SEA LION HAI	RVEST BY AGE AND SEX	Personed		Estimated	
		By Semore	Percent	By Community	Percent
		(Uhexpanded		(Expanded)	
	Adult Male	0	00%	00	0 0%
	Adult F emale	0	00%	0 0	00%
	Adult Unknown Sex	0	00%	00	00%
	Juvenile Maie	0	00%	0 0	00%
	Juvanile Female	11	1000%	12	100 0%
	Juvenile Unknown Sex	0	00%	0 0	00%
	Pup Male	0	00%	0 0	00%
	Pup Femrk	0	00%	0 0	00%
	Pup Unknown Sex	0	00%	0 0	00%
	Male Unknown Age	0	00%	0 0	00%
	Female Unknown Age	0	00%	0 0	00%
	Unknown Sex and Age	0	0.0%	0.0	0.0%
	Total	1	100.0%	12	100 0%

SOURCE

Alasks Department of Fish and Game. Division of Subsistence: Subsistence Study and Montor System for Sea Lons and Harbor Seats in Alasks, with assistance from the Addasquix Tribe of King Cove. Belofatry Village Council and City of King Cove. 1994.

FIGURE 79. SEA LION (Eumetopias jubetus) TAKE ESTIMATES: KING COVE, 1983

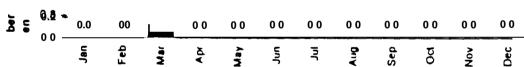


B. Seasonally Adjusted Take By Month

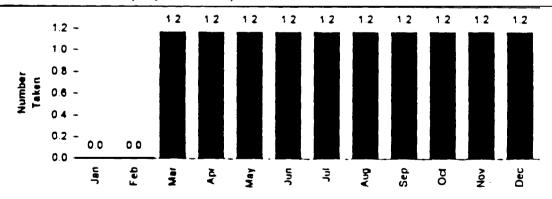
1.2 -

1.0 -

0.6 + 0.4 +



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lione and Harbor Sears in Alaska, with assistance from the Agdasgux Tribe of King Cove. Belotary Village Council and City of King Cove. 1994.

TABLE 80. HARBOR SEAL (Phocs vitulina) HARVEST AND TAKE ESTIMATES: KING COVE. 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total Total Native Households 103 117 Surveyed Households 12 26 38 Sampling Fraction 85.7% 25.2% 32.5% Sample Household Members 45 89 134 Estimated Household Members 52.5 352.6 4a5.1

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households: Estimated Community Harvest and Take (Expanded): Used 8.0% Total Number Harvested 12 8 Hunted 8.0% Total Number Struck and Lost 3 5 Harvested 7.0% Total Number Taken 16 3 Received 6.0% Number Harvested Per Capita 0 03 Gave Away 6.0%

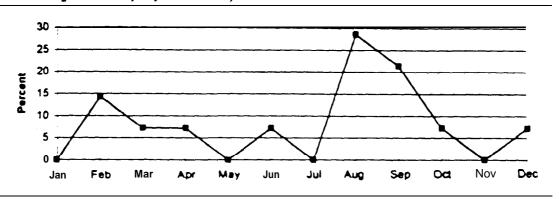
HARBOR SEAL	L HAR	EST BY	Y SEAS	ON								L	inknown	
	Jan	Feb	Mar	Apr	May	Jun	ايط	Aug	Sep	Oct	Nov	Dec	Month	Tou
REPORTED HARVE	ST AND	TAKE BY	SAMPLED	HOUSEH	OLDS IUN	ECPANDE	D)							
Harvest	0	2	1	7	0	1	0	3	2	0	0	1	0	1
Struck and Lost	0	0	0	0	0	0	0	1	1	1	0	0	0	
Total Take	0	2	1	1	0	1	0	4	3	1	0	1	0	1
ESTIMATED HARVI	EST AND	TAKE BY	COMMUN	ITY (E)(PA	NOED)									
Harvest	0.0	2. 3	1.2	12	00	1.2	00	35	2.3	0.0	00	12	00	12
Struck and Lost	00	0.0	00	0.0	0.0	00	00	1.2	1.2	12	00	00	0.0	3
Total Take	0.0	2. 3	12	1.2	00	1.2	00	47	3. 5	12	00	1.2	00	16
ESTIMATED SEASO	DNALLY A	ACJUSTE	HARVES	AND TA	KE BY CO	MMUNITY	(EXPANDI	EDI						
Harvest	0. 0	2. 3	12	12	00	1.2	00	3.5	2. 3	0.0	00	12		12.
Struck and Lost	0. 0	0.0	00	00	00	00	00	1.2	12	1.2	00	00		3
Total Take	0.0	2. 3	12	12	0.0	1.2	00	47	3. 5	12	00	1.2		16.
Total Take (%)	0.0%	14.3%	71%	7.1%	0.0%	71%	00%	28 6%	2148	7 1%	om	7 1%		1001
Cumulative Take	0.0	23	35	47.	47	58	58	10.5	14 0	15.2	152	1 6 3		
Cum Take RI	0.08	14 3%	21 4%	28 6%	28 6%	35.7%	35 7%	64 3%	85 7%	92 9%	92 9%	100 0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expanded)	
Adult Male	7	63.6%	9.2	83.8%
Adult Female	1	9 1%	1.2	9 1%
Adult Unknown Sex	2	18.2%	2.3	18.2%
Juvenile Male	1	9 1%	1 2	91%
Juvenik Fernale	0	00%	0 0	00%
Juvenile Unknown Sex	0	00%	0 0	0.0%
Pup Male	0	00%	0 0	0.0%
Pup Female	0	00%	0 0	00%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Mate Unknown Age	0	00%	0 0	00%
Female Unknown Age	0	00%	0 0	00%
Unknown Sex and Age	0	00%	0.0	0.0%
Total	11	1000%		100.0%

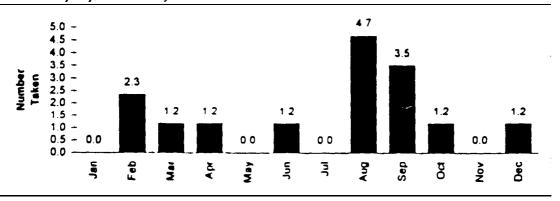
SOURCE. Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Montor System for See Lions and Harbor Seals in Alaska, with assistance from

the Agdasgux Tribe of King Cove. Belotsky Village Council, and City of King Cove. 1994

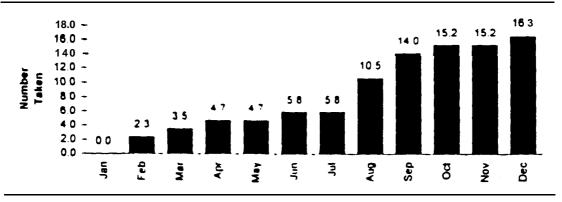
FIGURE 80. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: KING COVE. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE.

Alaska Department of Fish and Game. Division of Subsissence. Subsistence Saudy and Montor System for Sea Lione and Harbor Seais in Alaska, with assistance from the Agdeagux Tribe of King Cove. Beloftery Village Council and City of King Cove. 1994.

TABLE 81. SEA LION (Eumetopias jubetus) HARVEST AND TAKE ESTIMATES: PERRYVILLE, 1993

Total Native Households 31
Surveyed Households 29
Sampling Fraction 93 5%
Sample Household Members 107
Estimated Household Members 114 4

SEA UON HARVEST AND USE INFORMATION

Percent Of Native Households
Used 6 9 %
Hunted 6 9%
Harvested 00%
Received 6 9 %
Gave Away 00%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 0.0

Total Number Struck and Lost 0.0

Total Number Taken 0.0

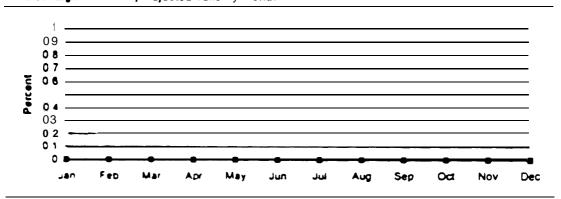
Number Harvested Per Capita 0.00

SEA LION HAI	RVEST &	BY SEA	SON									U	INKNOWN	
	Jan	Feb	Mar	47	May	٠	ابند	4	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HARVI	EST AND	TAKE BY S	MPLED	HOUSEH	من وهان	EUPANDE	õ							
Hervest	0	0	0	0	C	c	0	0	0	0	0	0	0	(
Struck and Lost	0	0	0	0	0	0	C	0	0	0	0	0	0	(
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	(
ESTIMATED HARV	EST AND	TAKE BY	COMMUN	TY (EXPA	NOED									
Harvest	00	00	00	00	CO	00	00	00	00	00	00	00	0.0	0 (
Struck and Loss	00	00	00	00	00	00	03	00	00	00	00	00	00	0.0
Total Taxe	00	00	00	00	co	00	00	00	00	00	00	00	_ 0.0	00
ESTIMATED SEAS	ONALLY A	WUSTED	HARVES"	T AND TA	KE 87 CO	MMUNITY	(EXPANO)	ED:						
Harvest	00	00	CC	00	CO	С3	oc	00	00	00	00	00		00
Struck and Lost	00	00	00	00	00	со	00	00	00	00	00	00		0. 0
Total Take	00	00	00	oc	oc	00	00	OC	00	00	00	00		00
Tow Take RI														
Cumulative Taxe	00	0.0	00	00	CO	00	00	00	00	00	00	00		
Cum Take (%)	om	om	om	cm	C CON	cm	cm	om	om	om	om	om		

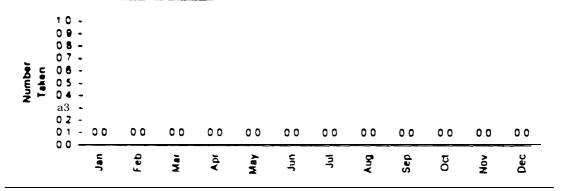
SEA LION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Samore	Percent	By Community	Percent
	(Unexpanded		(Expanded)	
Adult Male	0	_	00	
Adult Female	0	_	00	
Adult Unknown Sex	С	_	00	_
Juvenile Male	0		00	
Juvenile Female	0		00	-
Juvenile Unknown Sex	0		00	-
Pup Male	0	-	00	
Pup Female	0		-00	
Pup Unknown Sex	0	_	00	
Male Unknown Age	0	-	00	***
Female Unknown Age	0	-	00	
Unknown Sex and Age	0		00	
Total	0	_	00	-

SOURCE Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for See Lions and Harbor Seess in Alaska, with assistance from the Persyntle Traditional Wkage Council. 1994.

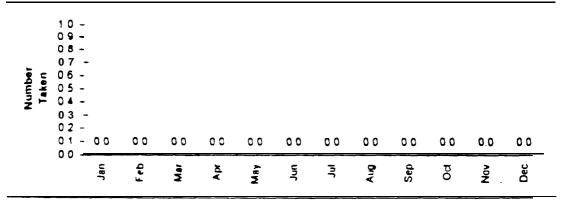
FIGURE 81. SEA LION (Eumetopies jubetus) TAKE ESTIMATES: PERRYVILLE, 1983



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Loms and Harbor Seals in Alaska, with assistance from the Perryville Traditional Village Council. 1994.

TABLE 82. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: PERRYVILLE, 1993

SAMPLING DESIGN: CENSUS

Total Native Households 31
Surveyed Households 29
Sampling Fraction 93.5%
Sample Household Members 107
Estimated Household Members 1144

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Eshmated Community Harvest and Take (Expande	ed):
Used 65.5%	Total Number Harvested	12.8
Humted 5 1 7 %	Total Number Struck and Lost	2.1
Harvested 17.2%	Total Number Taken	15.0
Received 65.5%	Number Harvested Per Capita	0.11
Gave Away 41 4%		

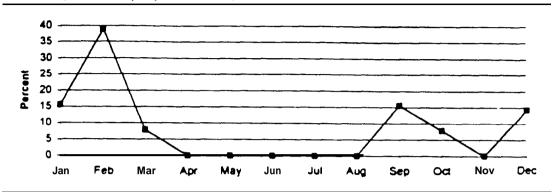
HARBOR SEAI	L HARV	EST BY	SEAS	ON								L	Inknown	
	معل	Feb	Mar	Apr	May	Jun	املا	Aug	Seo	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	EST AND	TAKE BY	MPLED	HOUSEH	OLDS (UNI	DUPANDE	0)		·· ·					
Hervest	2	5	1	0	0	0	Ō	0	2		0	0	1	12
Struck and Lost	0	0	0	0	0	0	0	0	0	0	٥	2	0	
Total Take	2	5	1	0	0	0	0	0	2		0	2	1	14
ESTIMATED HARVI	EST AND	TAKE BY	COMMUN	ITY (EXP)	MDED)									
Harvest	21	5. 3	1 1	00	00	00	00	00	2 1	1 1	00	0.0	1.1	12.8
Struck and Lost	00	0.0	00	00	00	00	00	00	00	0 0	0.0	21	0.0	2.1
Total Take	2. 1	5.3	11	00	00	00	00	00	21	11	0.0	21	1.1	15.0
ESTIMATED SEAS	DNALLY	W USTED	HARVES	TAND TA	KE BY CO	MUNITY	(EXPANDE	ED)						
Harvest	2.3	58	1.2	00	00	00	00	00	23	12	0.0	0 0		12.8
Struck and Lost	00	00	00	00	00	00	00	00	0 0	00	0 0	2 1		2.1
Total Take	2. 3	5.8	1 2	00	00	00	00	00	23	1.2	0 0	21		15.0
Total Take (%)	15.6%	39.0%	7 8%	00%	0.0%	00	00	00%	15.6%	7 8%	0.0%	143%		100%
Cumulative Take	23	8.2	9.3	93	9 3	93	93	93	117	12.8	12.0	15.0		
Cum Take (%)	15 6%	54 5%	62 3%	62 3%	823%	62 3%	62 3%	8238	77 9%	85 7%	85 7%	100 0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	8 3%	11	8 3%
Adult Female	1	8 3%	1 1	8 3%
Adult Unknown Sex	0	0 0%	0 0	0.0%
Juvenile Maie	0	00%	0 0	0 0%
Juvenile Female	0	0 0%	0 0	0.0%
Juvenile Unknown Sex	5	417%	5.3	41 7%
Pup Male	0	00%	0 0	0.0%
Pup Female	0	00%	0 0	0.0%
Pup Unknown Sex	4	33 3%	4.3	33 3%
Male Unknown Age	0	0 0%	0 0	0.0%
Female Unknown Age	٥	00%	0 0	0.0%
Unknown Sex and Age	1	8 3%	11	8 3%
Total	12	1000%	12.8	100.0%

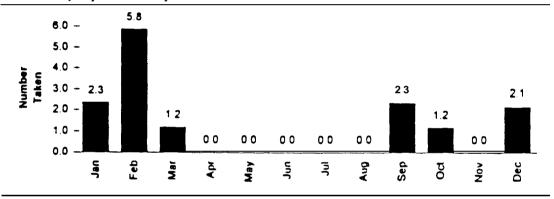
SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for See Lons and Harbor Sees in Alaska, with assistance from the Pernyville Traditional Village Council. 1994.

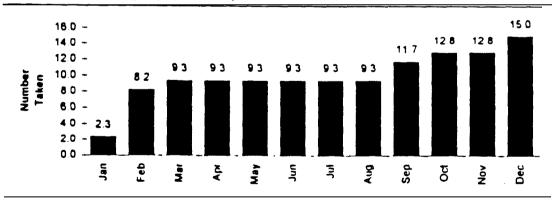
FIGURE 82. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: PERRYVILLE, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and marbor Seals in Alaska, with assistance from the Perryville Traditional Wilage Council. 1994.

TABLE 83. SEA LION (Eumetopies jubetus) HARVEST AND TAKE ESTIMATES: SAND POINT, 1993

SAMPLING DESIGN: TWO STRATA

Active other Total
Total Native Households 14 129 143
Surveyed Households 12 30 42
Sampling Fraction 85.7% 2 3 3 % 29 4%
S a m p I e Household Members 50 9 3 143
Estimated Household Members 5 8 3 399 9 4 5 8 2

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households
Used 0 0 %
Hunted 0.0%
Total Number Struck and Lost 0 0
Harvested 0.0%
Total Number Struck and Lost 0 0
Total Number Taken 0.0
Received 0 0 %
Number Harvested Per Capita 0 00
Gave Awry 0 0 %

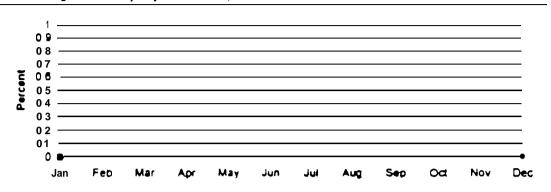
SEA LION HAI	RVEST	BY SEA	SON									υ	nknown	
	Jan	Feb	Mar	Apr	May	Jun	امط	Aug	Seo	Oct	Nov	Dec	Month	Total
REPORTED HARVE	EST AND	TAKE BY S	AMPLED !	+OUSEH	DLDS IUN	EDPANDED	H					**		
Hervest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tom Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVI	EST AND	TAKE BY	COMMUNI	TY (EXPA	NDEDI									
Harvest	0.0	0.0	00	00	00	00	00	00	00	0.0	00	00	00	00
Struck and Loss	00	00	00	00	00	00	00	00	00	0.0	00	00	00	00
Total Taxe	0.0	00	00	00	00	00	00	00	00	0.0	0.0	00	00	00
ESTI MATED SEASO	ONALLY .	ADJUSTED	HARVEST	AND TAK	E BY CO	MUNITY	EXPANOE	D)						
Hervest	0.0	00	00	00	00	00	00	00	00	00	0.0	00		oc
Struck and Lost	0. 0	0.0	00	00	00	00	00	00	00	00	00	00		oc
Total Take	0.0	0.0	00	00	00	00	00	00	00	0.0	00	00		oc
Total Take (%)	_	_	_	_	-		~	~	-	_	-	_		
Cumulative Take	0.0	0.0	00	00	00	00	0.0	0.0	00	0.0	00	0.0		
Cum Take (%)	0.0%	0.0%	00	0.0%	0.0%	000	00	0.0%	00	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sampie	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0		0.0	-
Adult Female	0		0.0	
Adult Unknown Sex	0	_	0 0	
Juvenile Male	0		0 0	
Juvenile Female	0		0 0	_
Juvenile Unknown Sex	0	_	0.0	
Pup Male	0		0 0	
Pup Female	0		0 0	
Pup Unknown Sex	0	_	00	
Male Unknown Age	0		00	
Female Unknown Age	0		0.0	
Unknown Sex and Age	0	-	0.0	
Total	0		0.0	

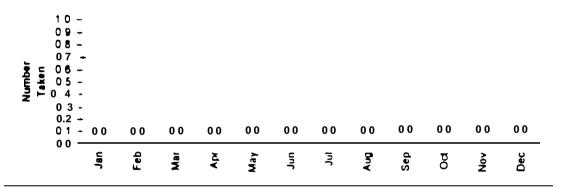
SOURCE

Alaska Department of Fish and Game. Division of Subeistence, Subeistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Cagan Tayagungi Triba of Sand Point, 1994.

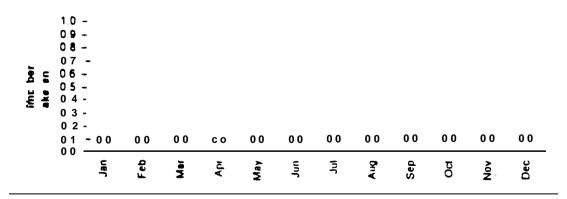
FIGURE 83. SEA LION (Eumetopias jubetus) TAKE ESTIMATES: SAND POINT. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alasks Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Osgan Tayegungi Triba of Sand Point, 1994.

TABLE 84. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: SAND POINT, 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total Total Native Households 14 129 143 Surveyed Households 12 30 42 Sampling Fraction 85 7% 23 3% 294% 50 Sample Household Members 143 93 **Estimated Household Members** 58 3 399 9 458 2

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Hous	seholds	Eshmated Community Harvest and Take (Expande	ed)
Used	1 4 7 %	Total Number Harvested	13 3
Hunted	Q 3%	Total Number Struck and Lost	1.2
Harvested	Q 3%	Total Number Taken	14 4
Received	6 3%	Number Harvested Per Capita	0.03
Gave Away	46 X		

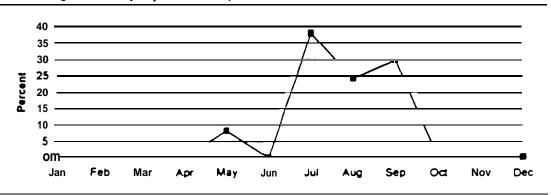
HARBOR SEAL	L HARVI	EST BY	SEASC	N								ι	Inknown	
	Jan	Feb	Mar	Apr_	May	ميد	ادف	Aug	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND T	AKE BY SA	WPLED!	+OUSEHC	DLDS (UN	EXPANDE	O;							
Harvest	0	0	0	0	1	0	2	2	1	0	0	0	0	6
Struck and Lost	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total Take	0	0	0	0	•	0	2	3		1 0	0	0	0	7
ESTIMATED HARVE	EST AND T	TAKE BY C	OMMUNI	TY IEXPA	NDED:									
Harvest	00	0.0	00	00	12	00	5.5	23	43	00	00	0.0	00	133
Struck and Lost	00	0.0	00	00	00	00	00	12	00	00	00	0.0	0.0	1.2
Total Take	00	00	00	00	1 2	00	5 5	3 5	43	00	00	0.0	00	14.4
ESTIMATED SEASO	DNALLY A	DUSTED	HARVES	T AND TA	KEBYCO	MMUNITY	EXPANDE	ED)						
Harvest	00	00	00	00	12	00	5.5	23	4 3	00	0. 0	00		1 3 3
Struck and Lost	00	00	00	00	00	00	00	12	00	00	00	00		12
Total Take	0.0	0.0	00	00	1 2	00	5.5	35	4 3	00	00	00		1.4
Total Take RI	0.08	0.0%	008	00	81%	00	37 9%	24 2%	29 8%	0.0%	0.0%	008		100%
Cumulative Take	00	00	00	00	12	1 2	6 6	10	1 14	4 144	14.4	14.4		
Cum Take (%)	0.0%	0.0%	00%	0.0%	818	8 1%	46 0%	70.23	100 0%	100 0%	100.0%	100 0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Реропес		Estimated		
	By Samore	Percent	By Community	Percent	
	(Unexpanded)		(Expanded)		
Adult Mole	0	0 0%	00	00%	
Adult Female	0	0 0%	00	00%	
Adult Unknown Sex	4	667%	78	58 6%	
Juvenile Male	0	00%	0 0	00%	
Juvenile Female	0	00%	0 0	00%	
Juvenile Unknown Sex	0	00%	0 0	00%	
Pup Male	0	00%	0 0	00%	
Pup Female	0	00%	0 0	00%	
Pup Unknown Sex	0	00%	0 0	00%	
Male Unknown Age	0	00%	0 0	00%	
Female Unknown Age	0	00%	0 0	0.0%	
Unknown Sea and Age	2	33 3%	5.5	412%	
Total		1000%		1000%	

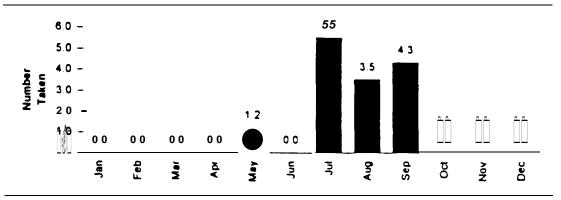
SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Oagan Tayagungi Triba of Sand Point, 1994.

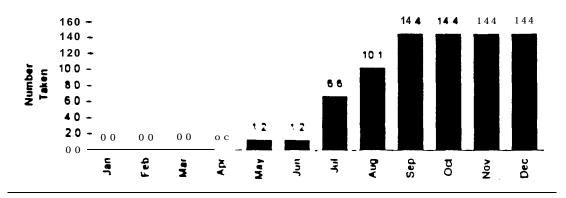
FIGURE 84. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: SAND POINT, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and marbor Sears in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Oegan Tayagungi Triba of Sand Point, 1994.

C-177

ALEUTIANISLANDS

Total Native Households	29
Surveyed Househoids	28
Sampling Fraction	89.7%
Sample Household Members	85
Estimated Household Members	94.8

SEA LION HARVEST AND USEINFORMATION

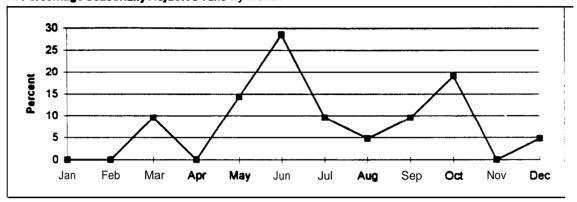
Percent Of Native House	seholds:	Estimated Community Harvest and Take (Expande	ed):
used	88.5%	Total Number Harvested	14.5
Hunted	30.8%	Total Number Struck and Lost	8.9
Harvested	23.1%	Total Number Taken	23.4
Received	84.8%	Number Harvested Per Capita	0.15
Gave Away	23.1%		

SEA LION HAR	VEST	BY SEA	SON									L	Jnknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARVES	T AND	TAKE BY	SAMPLED	HOUSEHOL	DS (UN	EXPANDE	O)							
Harvest	0	0	2	0	2	5	1	1	1	0	0	1	0	13
Struck and Lost	0	0	0	0	1	1	1	0	1	4	0	0	0	8
TOW Take	0	0	2	0	3	6	2	1	2	4	0	1	0	21
ESTI MATED HARVES	ONA T	TAKE BY C	OMMUNE	TY (EXPAN	DED)									
Harvest	0.0	0.0	2. 2	0.0	2. 2	5.6	1.1	1.1	1.1	0.0	0.0	1.1	0.0	14.5
Struck and Lost	0.0	0.0	0.0	0.0	1.1	1. 1	1.1	0.0	1.1	4.5	0.0	0.0	0.0	0. 9
Total Take	0.0	0.0	2. 2	0.0	3. 3	6. 7	2. 2	1.1	2. 2	4. 5	0.0	1.1	0.0	23. 4
ESTI MATED SEASON	IALLY A	DJUSTED H	ARVEST A	AND TAKE	BY CO	MMUNITY	(EXPANDE	ED)						
Harvest	0.0	0.0	2. 2	0.0	2. 2	5.6	1.1	1.1	1.1	0.0	0.0	1.1		14. 5
Struck and Lost	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0	1.1	4.5	0.0	0.0		0. 9
Total Take	0.0	0.0	2. 2	0.0	3. 3	6. 7	2. 2	1.1	2. 2	4.5	0.0	1.1		23. 4
Total Take (X)	0.0%	0.0%	9.5%	0.0%	14.3%	28.6%	9.5%	4.8%	9.5%	19. 1%	0.0%	4.8%		100%
Cumulative Take	0.0	0.0	2. 2	2. 2	5.6	12.3	14. 5	15.6	17.8	22. 3	22. 3	23. 4		
Cum. Take (%)	0.0%	0.0%	9.5%	9.5% 2	23.8%	52.4%	61.9%	66.7%	76.2%	95.2%	95.2%	100.0%		

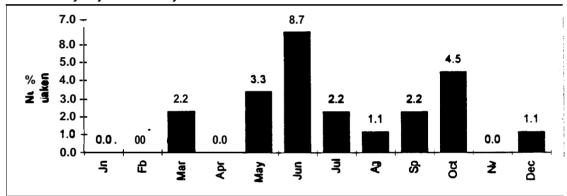
SEA LION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	7	53.8%	7.8	53.8%
Aduit Female	1	7.7%	1. 1	7.7%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	2	15.4%	2.2	15.4%
Juvenile Female	2	15.4%	2.2	15.4%
Juvenile Unknown Sex	1	7.7%	1. 1	7.7%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	13	100.0%	14.5 1	100.0%

SOURCE:

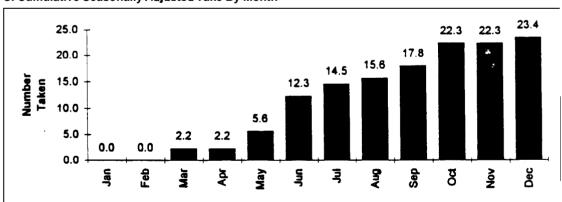
FIGURE 85. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: AKUTAN, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Total Native **Households** 20 surveyed Households 28 Sampling Fraction 89.7% Sample Household Members 85 Estimated Housahold Members 94.8

HARBOR SEAL HARVEST AND USE INFORMATION

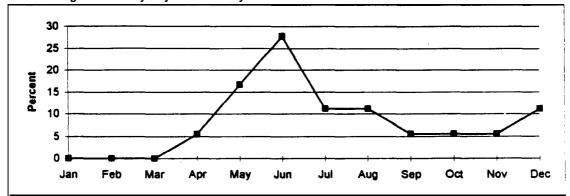
Percent Of Native Households:	Estimated Community Harvest and Take (Expende	ed):
Used 85.4%	Total Number Harvested	15.8
Hunted 30.8%	Total Number Struck and Lost	4.5
Harvested 23.1%	Total Number Taken	20.1
Received 57.7%	Number Harvested Per Capita	0.18
Gave Away 23.1%		

HARBOR SEAL	HAR	VEST BY	Y SEASO	N								U	nknown	
	Jan	Feb	Mer	Apr	May	Jun	اعتل	Aug	Sep	oot	Nov	Oec	Month	Total
REPORTED HARVEST	AND	TAKE BY	SAMPLED	HOUSEH	IOLDS (UN	EXPANDE	D)							
Harvest	0	0	0	1	3	5	1	1	1	0	1	1	0	14
Struck and Lost	0	0	0	0	0	0	1	1	0	1	0	1	0	4
Total Take	0	0	0	1	3	5	2	2	1	1	1	2	0	18
ESTIMATED HARVES	T AND	TAKE BY	COMMUNIT	Y (EXP	ANDED)									
Harvest	0.0	0.0	0.0	1.1	3. 3	5.6	1.1	1.1	1.1	0.0	1.1	1.1	0.0	15. 6
Struck and Lost	0.0	0. 0	0.0	0.0	0.0	0.0	1.1	1.1	0.0	1.1	0.0	1.1	0.0	4.5
Total Take	0.0	0.0	0.0	1.1	3. 3	5. 6	2. 2	2. 2	1.1	1.1	1.1	2. 2	0.0	20. 1
ESTI MATEO SEASON	ALLY /	ADJUSTED	HARVEST	AND TA	KE BY CO	MMUNITY	(EXPANDE	ED)						
Harvest	0.0	0. 0	0.0	1. 1	3. 3	5.6	1.1	1.1	1.1	0.0	1.1	1.1		15.6
struok and Lost	0.0	0. 0	0.0	0.0	0.0	0.0	1.1	1.1	0.0	1.1	0.0	1.1		4.5
Total Take	0.0	0. 0	0.0	1.1	3. 3	5. 6	2. 2	22	1.1	1.1	1.1	2. 2		20 . ji
Total Take (%)	0.0%	0.0%	0.0%	5.6%	16.7%	27.8%	11.1%	11.1	% 5.6%	5.6%	5.6%	11.1%		100%
Cumulative Take	0.0	0.0	0.0	1. 1	4. s	10.0	12. 3	14. 5	15.6	16.7	17. 0	20. 1		
Cum. Take (%) 0	. 0 %	0.0%	0.0%	5.6%	22. 2%	50.0%	61.1%	722%	77.8%	63. 3%	88.9%	100.0%		

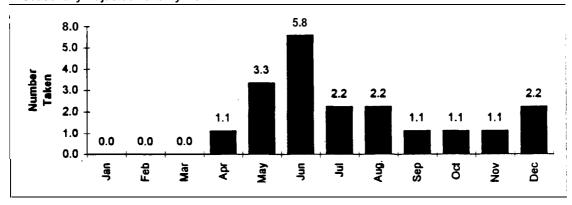
HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Aduit Male	7	50.0%	7.8	50.0%
Aduit Female	2	14.3%	2.2	14.3%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	4	28.8%	4.5	28.8%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sax	0	0.0%	0.0	0.0%
Pup Male	1	7.1%	1.1	7.1%
Pup Femaie	0	0.0%	0.0	0.0%
Pup Unknown Sax	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Femaie Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	14	100.0%	15.8	100.0%

SOURCE:

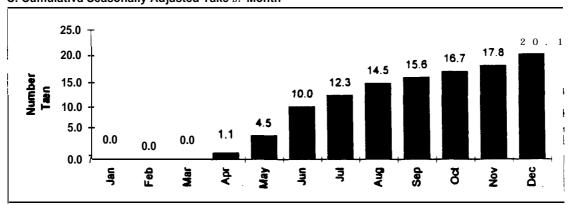
FIGURE 86. HARBOR SEAL (Phoca vituiina) TAKE ESTIMATES: AKUTAN, 1993



B. Seasonally Adjusted Take By Month



C. Cumuiativa Seasonally Adjusted Take By Month



SOURCE:

TABLE 87. SEA LION (Eumetopias jubatus) HARVEST AND TARE ESTIMATES: ATKA, 1993

SAMPLING DESIGN: CENSUS

Total Native Households24suweyed Households22Sampling Fraction91.7%Sampl e Household Members60Estimated Household Members65.5

SEALION HARVEST AND USEINFORMATION

Percent Of Native Households:	Estimated Community Harvest and Take (Expande	∍d):
used 86.4%	Total Number Harvested	25.1
Hunted 40.9%	Total Number Struck and Lost _	0.0
Harvested 39.4%	Total Number Taken	25.1
Received 68.2%	Number Harvested Per Capita	0.38
Gave Away 45.5%		

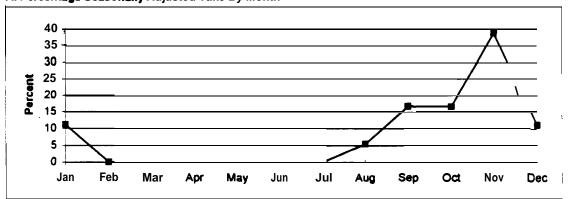
SEA LION HAI	RVEST	BY SEA	SON									U	nknown	
	Jen	Feb	Mer	Apr	May	Jun	Jul	Aug	Sep_	Oct	Nov	Dec	Month	Tota
REPORTED HARVE	ST AND	TAKE BY	SAMPLED	HOUSEH	OLDS (U	NEXPANDEI))							
Harvest	2	0	0	0	0	0	0	1	3	3	7	2	5	23
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	0	0	0	0	0	0	1	3	3	7	2	5	23
ESTI MATED HARVE	ST AND	TAKE BY C	OMMUN	TY (EXPA	NDED)									
Harvest	2. 2	0.0	0.0	0. 0	0.0	0.0	0.0	1.1	3. 3	3. 3	7. 6	2. 2	5. 5	25. 1
Struck and Lost	0.0	0.0	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	2. 2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3. 2	3. 3	7.6	2. 2	5.5	26. 1
ESTI MATED SEASO	NALLY AC	JUSTED I	HARVEST	AND TA	KEBYCC	MMUNITY	(EXPANDE	D)						
Harvest	2.8	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4. 2	4. 2	9.8	2. 0		26. 1
Struck and Lost	0.0	0.0	a0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	2.8	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4. 2	4. 2	9.8	2. 8		26. 1
Total Take (%)	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%	. 0.0%	5.6%	16. 7%	16. 7%	38.9%	11.1%		100%
Cumulative Take	2.8	2.8	2.8	2. 11	2.8	2.8	28	4. 2	8. 4	12.5	22. 3	26. 1		
Curn. Take (%)	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	16. 7%	33. 3%	50.0%	88.9%	100.0%		

SEALION HARVESTBY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	4	17.4%	4.4	17.4%
Adult Female	10	43.5%	10.9	43.5%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	2	8.7%	2.2	8.7%
Juvenile Female	2	0.7%	2.2	8.7%
Juvenile Unknovm Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknovm Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	5	21.7%	5.5	21.7%
Total	23	100.0%	25.1	100.0%

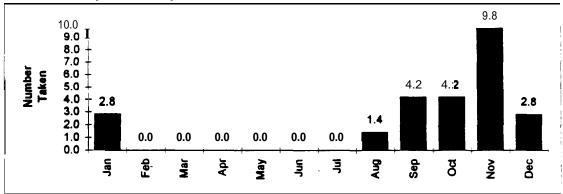
SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Herbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 1994.

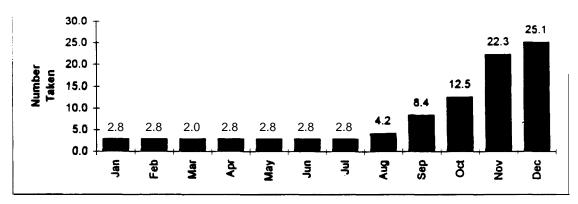
FIGURE 87. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: ATKA, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Garne, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 1994.

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
65.5

HARBOR SEAL HARVEST AND USE INFORMATION

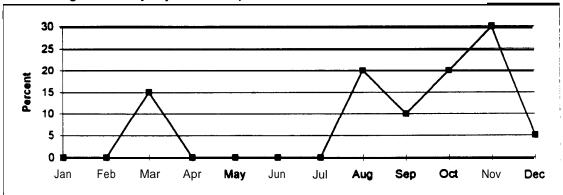
Percent Of Native Households:	Estimated Community Harvest and Take (Expanded):								
used 77.3%	Total Number Harvested	32.7							
Hunted 45.5%	Total Numbar Struck and Lost	0.0							
Harvested 31.8%	Total Number Taken	32.7							
Received 72.7%	Number Harvested Per Capita	0.50							
Gave Away 39.4%									

HARBOR SEAL	HAR	VEST BY	' SEASOI	٧		<u> </u>	·					U	Inknown	
_	Jan	Feb	Mar	_Apr_	May	Jun	Jul	Aug	Sep_	oot	NW	Dec	Month	Total
REPORTED HARVEST	AND	TAKE BY	SAMPLED	HOUSE	IOLDS (U	NEXPANDED))							
Harvest	0	0	3	0	0	0	0	4	2	4	6	1	10	30
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	3	0	0	0	0	4	2	4	6	1	10	30
ESTI MATED HARVEST	AND	TAKE BY	COMMUNI TY	(EXPA	NDED)									
Harvest	0.0	0.0	3. 3	0.0	0.0	0.0	0.0	4.4	22	4.4	6. 5	1.1	10. 9	32. 7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	3. 3	0.0	0.0	0.0	0.0	4. 4	22	4. 4	6. 5	1.1	10. 9	32. 7
ESTI MATED SEASON	ALLY	ADJUSTED	HARVEST.	AND TA	KE BY CO	MMUNITY	(EXPANDE	D)						
Harvest	0.0	0.0	4.0	0.0	0.0	0.0	0.0	6. 5	3. 3	6.6	0.6	1.6		32. 7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	4. 9	0.0	0.0	0.0	0.0	6.6	3. 3	6.6	9. 6	1.6		32.7
Total Take (%)	0.0%	0.0%	15.0%	0.0%	0.0%	0.0%	0.0%	20.0%	10.0%	20.0%	30.0%	5.0%		100%
Cumulative Take	0.0	0.0	4. 9	4.9	4.9	4. 9	4.9	11.5	14.7	21. 3	31. 1	32. 7		
Cum. Take (%)	0.0%	0.0%	15. 0%	16.0%	15.0%	16.0%	16.6%	36.0%	46.0%	65.0%	95.0%	100.0%		

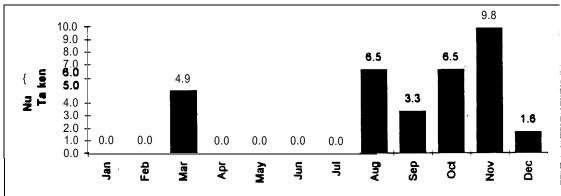
HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	3.3%	1.1	3.3%
Adult Female	4	13.3%	4.4	13.3%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	8	26.7%	0.7	20.7%
Juvenile Female	2	6.7%	2.2	8.7%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	5	16.7%	5.5	16.7%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	10	33.3%	10.9	33.3%
total	30	100.0%	32.7 1	00.0%

SOURCE:

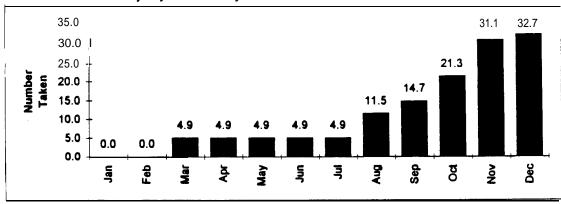
FIGURE 88. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: ATKA, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Total Native Households 13
Surveyed Households 13
Sampling Fraction 100.0%
Sample Household Members 19
Estimated Household Members 19.0

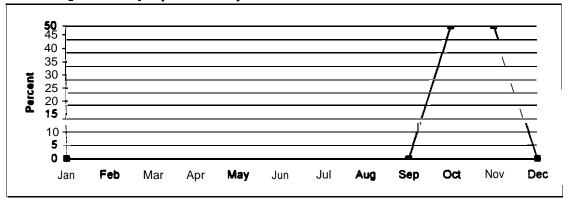
SEA LION HARVEST AND USE INFORMATION

SEA LION HARV	EST	BY SEA	SON									U	nknown	
	معل	Feb	Mar	Apr	May	Jun	ابد	Aug	Sep	Oct	NW	Dec	Month	Total
REPORTED HARVEST	AND	TAKE BY	SAMPLED	HOUSEHOLD	S (UNE	XPANDED)								
Harvest	0	0	0	0	0	0	0	0	0	3	3	0	0	6
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	Q
Total Take	0	0	0	0	0	0	0	0	0	3	3	0	0	6
ESTI MATED HARVEST	AND	TAKE BY	COMMUNI T	Y (EXPAND	ED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3. 0	3. 0	0.0	0.0	6. 0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3. 0	3. 0	0.0	0.0	6. 0
ESTI MATED SEASON	LLY A	ACJUSTED	HARVEST	AND TAKE	BY COM	IMUNITY (E	XPANDE	D)						
Harvest	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3. 0	3. 0	0.0		6. 0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3. 0	3. 0	0.0		6.0
Total Take (%	0	. 0% 0. 0	0. 0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	60.0%	50.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3. 0	6.0	6.0		
Cum. Take (%	0). 0% 0. 0	% 0.0	% 0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	100.0%	100.0%		

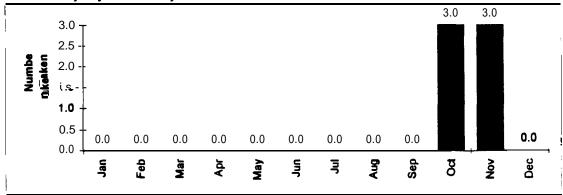
SEA LION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	6	100.0%	6.0	100.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	6	100.0%	6.0	100.0%

SOURCE:

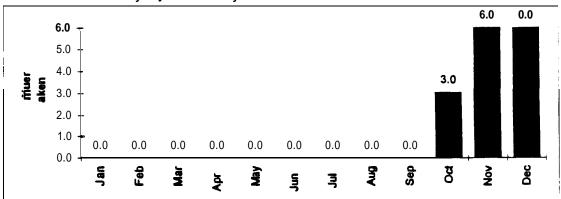
Alaska Department of Fish and Garne, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation, 1994.



B. Seasonally Adjusted lake By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation, 1994.

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
19
19.0

HARBOR SEAL HARVESTAND USE INFORMATION

Percent Of Native Households:	Estimated Community Harvest and Take (Expmde	∍d):	
used 38.5%	Total Number Harvested	4.0	
Hunted 23.1%	Total Number Struck and Lost	1	0
Harvested 23.1%	Total Number Taken	5.0	
Received 15.4%	Number Harvested Per Capita	0.21	
Gave Away 30.8%	·		

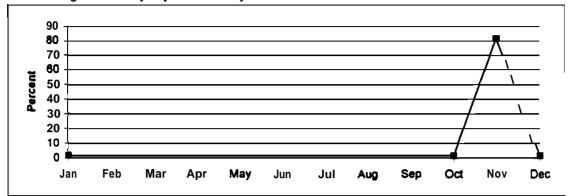
HARBOR SEAL	. HARV	EST BY	SEASC)N								L	Inknown	
	Jan	Fee	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	TOW
REPORTED HARVES	T AND T	AKE BY S	SAMPLED	+OUSEHC	LDS (UN	EXPANDED	O)							
Harvest	0	0	0	0	0	0	0	0	0	0	4	0	0	4
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total Take	0	0	0	0	0	0	0	0	0	0	4	0	1	9
ESTIMATED HAR	VEST AN	D TAKE s	Y COMMUNI	TY (EXPA	NDED)									
Harvest	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4. 0	0.0	0.0	4.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	a0	0.0	0.0	4.0	0.0	1.0	5. (
ESTIMATED SEASO	DNALLY A	DJUSTED	HARVES	T AND TAK	E BY CO	MMUNITY	(EXPANDE	D)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4. 0	0.0		4. (
Struck and Lost	0. 1	0. 1	0. 1	0. 1	0. 1	0. 1	0. 1	0.1	0.1	0. 1	0.1	0.1		1.0
Total Take	0.1	0. 1	0. 1	0. 1	0. 1	0. 1	0. 1	0.1	0.1	0.1	4. 1	0.1		5.0
Total Take (%)	1.7%	1. 7%	1.7%	1.7%	1.7%	1. 7%	1.7%	1. 7%	1.7%	1. 7%	81.7%	1. 7%		100%
Cumulative Take	0.1	0. 2	0.3	0.3	0.4	0.5	0.6	0.7	0.6	0.8	4. 9	5. 0		
Cum. Take (%)	1.7%	3. 3%	5.0%	6. 7%	8.3%	10.0%	11.7%	13.3%	15.0%	16. 7%	98.3%	100.0%		

HARBOR SEAL HARVESTBY AGE AND SEX	Reported By Sample	Damani	Estimated By Community Percent
	(Unexpanded)	Percent	(Expanded)
Adult Male		100.0%	4.0 100.0%
Adult Female	0	0.0%	0.0 0.0%
Adult Unknown Sex	0	0.0%	0.0 0.0%
Juvenile Male	0	0.0%	0.0 0.0%
Juvenile Female	0	0.0%	0.0 0.0%
Juvenile Unknown Sex	0	0.0%	0.0 0.0%
Pup Maie	0	0.0%	0.0 0.0%
Pup Female	0	0.0%	0.0 0.0%
Pup Unknown Sex	0	0.0%	0.0 0.0%
Male Unknown Age	0	0.0%	0.0 0.0%
Female Unknown Age	0	0.0%	0.0 0.0%
Unknown Sex and Age	0	0.0%	0.0 0.0%
Total	4	100.0%	4.0 100.0%

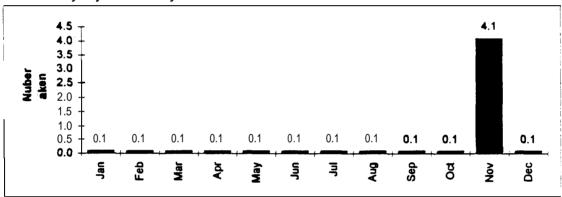
SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation, 1994.

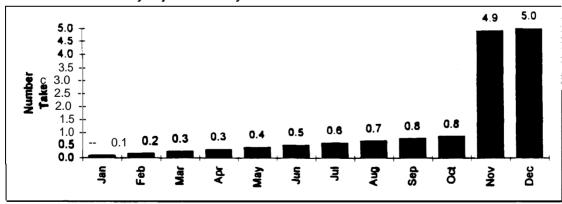
FIGURE 90. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: NIKOLSKI. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation, 1994.

TABLE 91. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: UNALASKA, 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total
Total Native Households 24 54 78
Surveyed Households 16 45 61
Sampling Fraction 66.7% 63.3% 78.2%
Sample Household Members 61 120 181
Estimated Household Members 91.5 144.0 235.5

SEALION HARVEST AND USEINF ORMATION

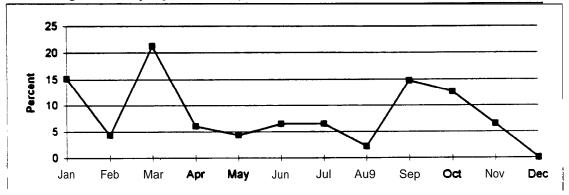
Percent Of Native Househo	olds:	Estimated Community Harvest and Take (Expande	d):
used 100	0.0%	Total Number Harvested	53.4
Hunted 30.	.4%	Total Number Struck and Lost	15.9
Harvested 22.	.7%	Total Number Taken	09.3
Received 96	.2%	Number Harvested Per Capita	0.23
Gave Away 20	.8%	·	

SEA LION HA	RVEST	BY SEA	SON									Un	known	
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	00	t Nov	Dec M	onth	Tota
REPORTEDHARV	ESTAND	TAKEBYSA	MPLEDHO	USEHO	LDS(UNE	XPANDE	D)							
Harvest	6	1	6	3	2	2	2	1	6	4	3	0	0	36
Struck and Lost	1	1	4	0	0	1	1	0	1	2	0	0	0	11
Total Take	7	2	10	3	2	3	3	1	7	6	3	0	0	47
ESTIMATED HARV	EST AND	TAKE BY	COMMUNI T	Y (EXPA	ANDED)									
Harvest	9. 0	1.S	9.0	4. 2	3. 0	3. 0	3. 0	1.5	0. 7	6.0	4. 5	0.0	0.0	53.4
Struck and Lost	1.5	1.5	6. 7	0.0	0.0	1.5	1.5	0.0	1.5	2. 7	0.0	0.0	0.0	15. 9
Total Take	10.5	3. 0	14. 7	4.2	3. 0	4.5	4.5	1.5	10. 2	6. 7	4. 5	0.0	0.0	69. 3
ESTIMATED SEASO	ONALLY A	W JUSTED	HARVEST A	NO TAK	EBYCON	MUNITY	(EXPANDE	ED)						
Harvest	9.0	1.5	9.0	4. 2	3. 0	3. 0	3. 0	1.5	6. 7	0.0	4. 5	0.0		53. 4
Struck and Lost	1.5	1.5	5.7	0.0	0.0	1.5	1.5	0.0	1.5	2.7	0.0	0.0		15. 9
Total Take	10.5	3. 0	14. 7	4. 2	3. 0	4. s	4. s	1.5	10. 2	6. 7	4.5	0.0		69. 3
Total Take (%)	15.2%	4.3%	21. 2%	6.1%	4.3%	6.5%	6.5%	2. 2%	14.7%	12.6%	6. 5%	0.0%		100%
Cumulative Take	10.5	13.5	26. 2	32. 4	36. 4	39. 9	44. 4	45.9	56 .1	64.8	66. 3	S9. 3		
Cum. Take (%)	15.2%	19.5%	40.7%	46.8%	51.1%	57.6%	64.1%	88.2%	81.0%	93.5%	100.0%	100.0%		

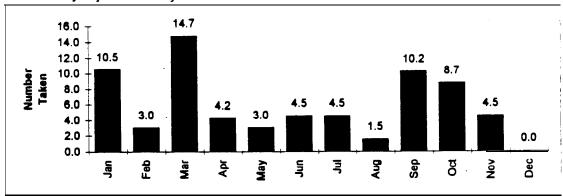
SEA LION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	14	38.9%	20.7	38.8%
Adult Female	3	8.3%	4. 5	8.4%
Adult Unknown Sex	0	0.0%	0. 0	0.0%
Juvenile Male	7	19.4%	10.2	19.1%
Juvenile Female	6	16.7%	9.0	16.9%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	3	8.3%	4.5	8.4%
Pup Female	3	8.3%	4.5	8.4%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	36	100.0%	53.4	100.0%

SOURCE:

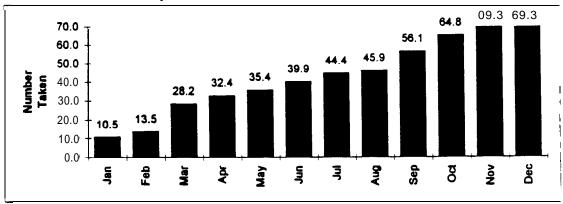
FIGURE 91. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: UNALASKA, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

SAMPLING DESIGN:TWO STRATA

Active Other Total 54 Total Native Households 24 78 Surveyed Households 16 61 45Sampling Fraction 99.7% 83.3% 78.2% Sample Household Members 61 120 181 **Estimated Household Members** 91.5 144.0 235.5

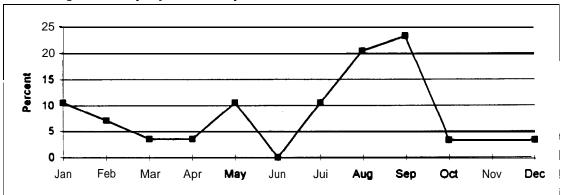
HARBOR SEAL HARVEST AND USEINFORMATION

Percent Of Native House	seholds:	Estimated Community Harvest and Take (Expande	ed):
used	93.8%	Total Number Harvested	32.7
Hunted	33.8%	Total Number Struck and Lost	9.9
Harvested	22.7%	Total Number Taken	42.6
Received	90.0%	Number Harvested Per Capita	0.14
Gave Away	22.7%	·	

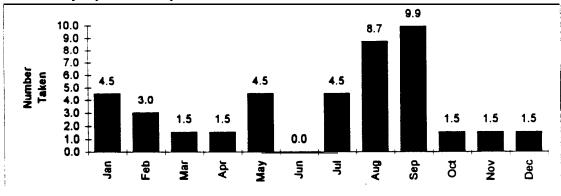
HARBOR SEAL	. HAR	VEST BY	'SEASO	N								U	nknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	TOV
REPORTED HARVI	EST AN	D TAKE BY	SAMPLED	HOUSE	HOLDS (U	NEXPANDEI))							
Harvest	3	1	1	0	3	0	3	3	5	1	1	1	0	22
Struck and Lost	0	1	0	1	0	0	0	3	2	0	0	0	0	7
Total Take	3	2	1	1	3	0	3	6	7	1	1	1	0	29
ESTI MATED HARVI	EST ANO	TAKE BY	COMMUNI T	Y (EXPA	ANDED)									
Harvest	4.5	1.5	1.5	0. 0	4. 5	0.0	4. 5	4. 5	1. 2	1.5	1.5	1.5	0.0	32. 7
Struck and Lost	0. 0	1.5	0.0	1. 5	0. 0	0.0	0.0	4. 2	2.7	0.0	0.0	0.0	0.0	9. 9
Total Take	4.	5 3.0	1. 5	1.5	4. 5	0.0	4. 5	8. 7	9. 9	1.5	1. 5	1.5	0.0	42. 6
ESTIMATED SEA	SONAL	LY ADJUSTE	D HARVEST	ANO TAR	KE BY CO	MMUNITY	(EXPANDE	ED)						
Harvest	4.5	1. 5	1. 5	0.0	4. 5	0.0	4. 5	4.5	7. 2	1.5	1.5	1.5		32. 7
Struck and Lost	0. (0 1.5	0.0	1. 5	0.0	0.0	0.0	4. 2	2.7	0.0	0.0	0.0		9. 9
Total Take	4.	5 3.0	1. 5	1. 5	4. 5	0.0	4. 5	8. 7	9.9	1.5	1.5	1.5		42. 6
Total Take (%)	10.6%	7.0%	3. 5%	3. 5%	10.6%	0.0%	10.6%	20.4%	23. 2%	3. 5x	3. 5%	3. 5%		100%
Cumulative Take	4.	5 7.5	9. 0	10. 5	15. 0	15. 0	19. 5	28. 2	38.1	30. 6	41. 1	42.6		
Cum. Take (%)	10.6%	17.6%	21.1%	24.6%	35. 2%	35. 2%	46.6%	66. 2%	8.4%	93.0%	96.5%	100.0%		

HARBOR SEAL HARVEST BY AGE AND ŞEX	Reported By Sample	Percent	Estimated By Community Percent
	(Unexpanded)		(Expanded)
Aduit Male	7	31.8%	10.5 32.1%
Aduit Female	3	13.6%	4.5 13.0%
Adult Unknown Sex	Q	0.0%	0.0 0.0%
Juvenile Male	5	22.7%	7.5 22.9%
Juvenile Female	4	18.2%	5.7 17.4%
Juvenile Unknown Sex	2	9.1%	3.0 9.2%
Pup Mole	0	0.0%	0.0 0.0%
Pup Female	0	0.0%	0.0 0.0%
Pup Unknown Sex	0	0.0%	0.0 0.0%
Male Unknown Age	1	4.5%	1.5 4.6%
Female Unknown Age	0	0.0%	0.0 0.0%
Unknown Sex and Age	0	0.0%	0.0 0.0%
Total	22	100.0%	32.7 100.0%

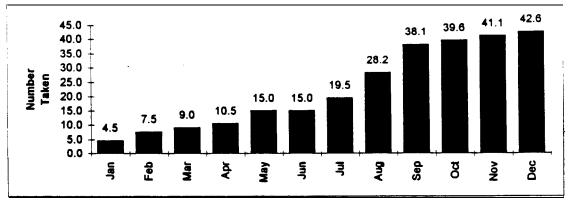
SOURCE:



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

PRIBILOF ISLANDS

TABLE 93. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: SAINT GEORGE, 1993

Total Native Households

Surveyed Households

Sampling Fraction

Sample Household Members

Estimated Household Members

144.7

SEA LION HARVEST AND USEINFORMATION

Percent Of Native Households:	Estimated Community Harvest and Take (Expande	ed):
used 30.8%	Total Number Harvested	3.7
Hunted 10.4%	Total Number Struck and Lost_	14.8
Harvested 7.9%	Total Number Taken	18.6
Received 31.6%	Number Harvested Per Capita	0.03
Gave Away 10.5%	·	

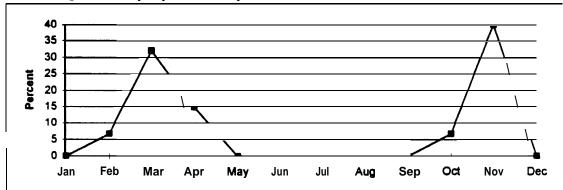
SEA LION HAR	VEST	BY SEA	SON									U	nknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTEDHARV	ESTANO	TAKE BY	SAMPLED	HOUSEH	IOLDS (UN	EXPANDE	D)							
Harvest	0	1	0	1	0	0	0	0	0	1	0	0	0	3
Struck and Lost	0	0	4	1	0	0	0	0	0	0	5	0	2	12
TOW Take	0	1	4	2	0	0	0	0	0	1	5	0	2	15
ESTI MATED HARVES	ST ANO	TAKE BY	COMMUNI'	TY (EXP	NOED)									
Harvest	0.0	1. 2	0.0	1. 2	0.0	0.0	0.0	0.0	0.0	1. 2	0.0	0.0	0.0	3. 7
Struck and Lost	0.0	0.0	4. 9	1. 2	0.0	0.0	0.0	0.0	0.0	0.0	6. 2	0.0	2. 5	146
Total Take	0.0	1. 2	4. 9	2. 5	0.0	0.0	0.0	0.0	0.0	1. 2	6. 2	0.0	2. 5	18.6
ESTIMATED SEAS	SONALI	LY ADJUST	TED HARVE	ST AND T	AKE BY C	OMMUNITY	(EXPANDE	ED)						
Harvest	0.0	1. 2	0. 0	1. 2	0.0	0.0	0.0	0.0	0.0	1. 2	0.0	0.0		3. 7
Struck and Lost	0.0	0.0	5. 9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0		14. 6
Total Take	0.0	1. 2	6. 9	27	0.0	0.0	0.0	0.0	0.0	1. 2	7.4	0.0		16. 6
Total Take (%)	0.0%	6. 7%	32.0%	14. 7%	0.0%	0.0%	0.0%	0.0%	0.0%	6. 7%	40.0%	0 .	0 %	100%
Cumulative Take	0.0	1. 2	7. 2	9. 9	9.9	9.9	9.9	9. 9	9. 9	11.1	16. 6	18. 8		
Cum. Take (%)	0.0%	6.7%	38. 7%	53. 3%	53. 3%	53.3%	53.3%	53. 3%	53. 3%	60.0%	100.0%	100.0%		

SEA LION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
1	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	33.3%	1.2	33.3%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	33.3%	1.2	33.3%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	33.3%	1.2	33.3%
Total	3	100.0%	3.7	100.0%

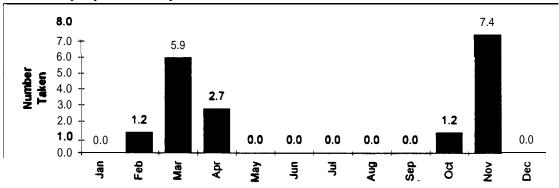
SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 1994.

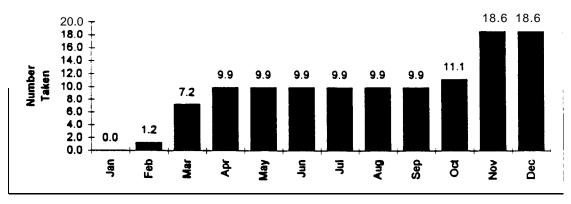
FIGURE 93. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: SAINT GEORGE, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 1994.

Total Native Households 47
Surveyed Households 36
Sampling Fraction 80.9%
Sample Household Members 117
Estimated Household Members 144.7

HARBOR SEAL HARVEST AND USEINFORMATION

Percent Of Native House	seholds:	Estimated Community Harvest and Take (Expand	ed):
used	0.0%	Total Number Harvested	0.0
Hunted	0.0%	Total Number Struck and Lost	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.0%	Number Harvested Per Capita	0.00
Gave Away	0.0%	·	

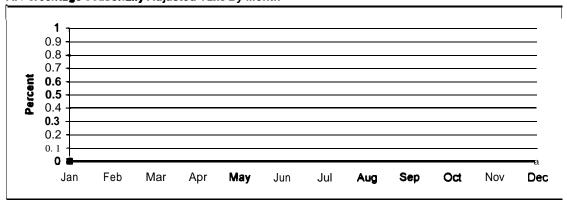
HARBOR SEAL	HAR	VEST BY	/ SEASOI	V								U	nknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep_	Oct	Nov	Dec	Month	Tota
REPORTED HARVEST	AND	TAKE BY	SAMPLED	HOUSEH	OLDS (UN	IEXPANDED)							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Tom Take	0	0	0	0	0	0	0	0	0	0	0	0	0	(
ESTI MATED HARVES	Γ AND	TAKE BY	COMMUNI TY	(EXPA	NDED)									
Harvest	0.0	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. (
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. (
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. 0
ESTI MATED SEASON	ALLY A	ADJUSTED	HARVEST.	AND TAK	E BY CO	MMUNITY (EXPANDE	O)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.
Total Take (%)	_	_		_	-	-		-	_	_		***		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0. 0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0		0.0	***
Adult Female	0		0.0	
Adult Unknown Sex	0		0.0	
Juvenile Male	0		0.0	***
Juvenile Female	0		0.0	
Juvenile Unknown Sex	0		0.0	***
Pup Male	0		0.0	***
Pup Female	0		0.0	
Pup Unknown Sex	0		0.0	
Male Unknown Age	0		0.0	
Female Unknown Age	0		0.0	
Unknown Sex and Age	0		0.0	***
Total	0	980	0.0	

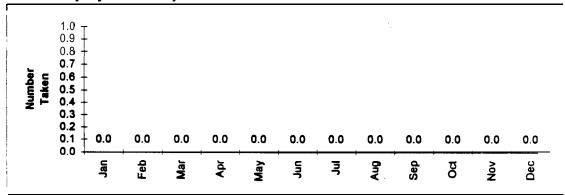
SOURCE:

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 1994.

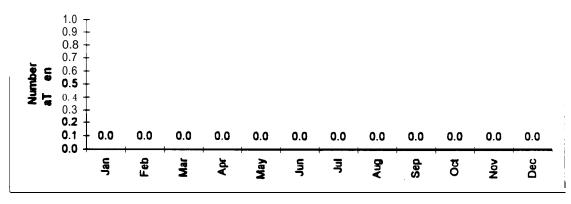
FIGURE 94. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: SAINT GEORGE, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, $\operatorname{Divi}\operatorname{si}\operatorname{on}$ of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St . George Traditional IRA Council, City of St . George, and St . George Tanaq Corporation, 1994.

SAMPLING DESIGN:TWO STRATA

Active Other **Total**Total Native Households **61** 70 131
Surveyed Households 53 31 **84 Sampling** Fraction **86.9% 44.3%** 64.1%

Sample Household **Members** 231 117 346 Estimated Household **Members** 265.9 264.2 530.1

SEA LION HARVEST AND USEINFORMATION

Percent Of Native Households:

Used 83.5%

Hunted 46.9%

Harvested 37.6%

Received 66.7%

Gove Away 40.2%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 161.7

Total Number Struck and Lost 6 5 . 2

Total Number Taken 226.8

Number Harvested Per Capita 0.31

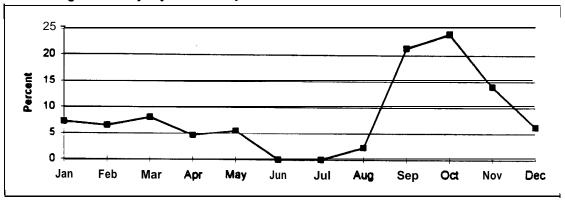
SEALION HAR	RVEST	BY SEA	SON									Ū	Inknown	
	Jan	Feb	Mar	Apr_	May	Jun	Jul	Aug	Sep_	Oct	Nov	Dec	Month	Tot 41
REPORTEDHARV	/ESTANI	DTAKE S	SAMPLE	DHOUSE	HOLDS(UN	EXPANDED))							
Harvest	4	5	7	6	6	0	0	3	23	19	7	7	40	127
Struck and Lost	3	3	3	0	1	0	0	0	4	8	7	1	17	47
Total Take	7	8	10	6	7	0	0	3	27	27	14	8	57	174
ESTI MATED HARVE	ST AND	TAKE BY	COMMUN	ITY (EXP	ANDED)									
Harvest	6.8	5.8	8. 1	a9	6. 9	0.0	0.0	3. 5	26.5	24. 1	9. 2	8. 1	56. 0	161.7
Struck and Lost	3. 5	3. 5	3. 5	0.0	1. 2	0.0	0.0	0.0	4.6	10. 3	10. 3	1. 2	27. 3	65. 2
Total Take	10.3	9. 2	11. 5	6.9	8. 1	0. 0	0.0	3. 5	31. 1	34. 4	19.4	9. 2	83. 3	226. 8
ESTIMATED SEASO	NALLY A	DJUSTED	HARVES'	T AND TA	KEBYCO	MMUNITY (EXPANDE	D)						
Harvest	10.4	a 8	123	10.6	10.6	0. 0	0.0	5. 3	40. 5	36.8	14.0	12. 3		161.7
Struck and Lost	5. 0	as	as	0.0	2. 0	0.0	0.0	0.0	7.9	17. 8	17. 7	2. 0		65. 2
Total Take	16.4	14. 7	18. 3	10.6	12.5	0.0	0.0	5. 3	48.4	54.6	31.7	14. 3		226.8
Total Take (%)	7. 2%	6.5%	8.1%	4. 7%	5.5%	0.0%	0.0%	2. 3%	21.3%	24. 1%	14.0%	6. 3%		100%
Cumulative Take	16.4	31. 1	49. 4	60.0	72. 5	72. 5	72. 5	77.8	128. 2	180.8	212. 5	226.8		
Cum. Take (%)	7. 2%	13.7%	21.8%	26. 4%	32.0%	32.0%	32.0%	34.3%	55.6%	79.7%	93. 7%	100.0%		

SEA LION HARVESTBY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	8	6.3%	9.2	5.7%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	82	64.6%	102.1	63.2%
Juvenile Female	1	0.8%	1.2	0.7%
Juvenile Unknown Sax	22	17.3%	33.1	20.5%
Pup Mate	10	7.9%	11.5	7.1%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sax	4	3.1%	4.6	2.6%
Mole Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	127	160.0%	161.7	100.0%

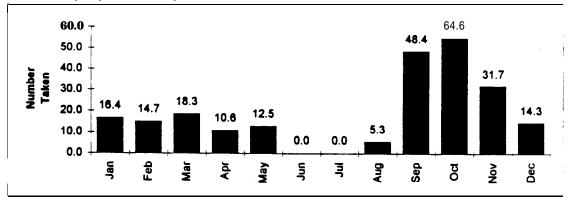
SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of St. Paul and Tribal Government of St. Paul, 1994.

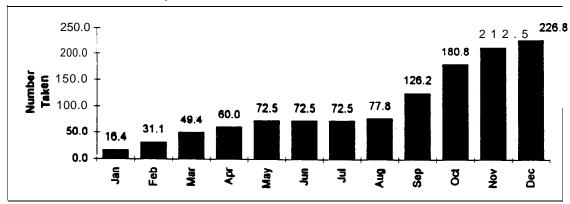
FIGURE 95. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: SAINT PAUL, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted lake By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of St. Paul and Tribal Government of St. Paul, 1994.

SAMPLING DESIGN: TWO STRATA

Active Other Total Total Native Households 61 70 131 Surveyed Households 53 64 31 Sampling Fraction 66.9% 44.3% 64.1% Sample Household Members 231 117 346 Estimated Household Members 265.9 264.2 530.1

HARBOR SEAL HARVEST AND USEINFORMATION

Percent Of Native Househok	is: Estimated Com	munity Harvest and Take (Expanded)) <i>:</i>
Used 6.1	%	Total Number Harvested	2.3
Hunted 3.5	%	Total Number Struck and Lost	1.2
Harvested 1.6	%	Total Number Taken	3.5
Received 4.4	%	Number Harvested Per Capita (0.00
Gave Away 3.5	%	·	

HARBOR SEAL	HAR	EST BY	SEASO	N								Į	Jnknown	
	Jan	Feb	Mar	Apr	May	Jun	أنال	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVES	Γ AND T	AKE BY S	AMPLED H	OUSEHO	LDS (UNE	EXPANDE	D)							
Harvest	0	0	0	1	0	0	0	0	0	0	0	1	0	2
Struck and bet	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total Take	0	1	0	1	0	0	0	0	0	0	0	1	0	3
ESTI MATED HARVE	ST AND	TAKE BY	COMMUNI T	Y (EXPAN	NDED)									
Harvest	0.0	0.0	0.0	1. 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2. 3
Struck and Lost	0.0	1. 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1. 2
Total Take	0.0	1. 2	0.0	1. 2	0.0	0.0	0.0	0.0	0.0	0. 0	0.0	1. 2	0.0	3. 5
ESTI MATED SEASO	NALLY	ADJUSTE	D HARVES	T MD TAK	E BY CO	MMUNI TY	(EXPANDE	D)						
Harvest	0.0	0.0	0.0	1. 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1. 2		2.3
Struck and Lost	0.0	1. 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1. 2
Total Take	0.0	1. 2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1. 2		3. 1
Total Take (%)	0.0%	33. 3%	0.0%	33. 3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33. 3%		100%
Cumulative Take	0.0	1.2	1.2	23	2.3	2. 3	2. 3	2.3	2.3	2. 3	2. 3	3.5		
Cum. Take (%)	0.0%	33. 3%	33.3%	86. 7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	100.0%		

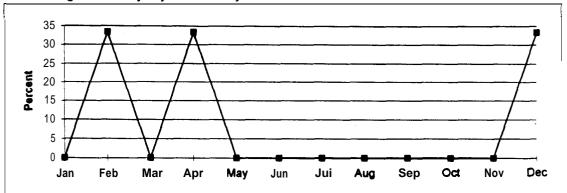
HARBOR SEAL HARVEST BY AGE AND SEX	Reported By Sample	Percent	Estimated By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0. 0	0.0%
Adult Female	0	0.0%	0. 0	0.0%
Adult Unknown Sex	1	50.0%	1.2	50.0%
Juvenile Male	1	50.0%	1.2	50.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup:Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	2	100.0%	2.3	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from

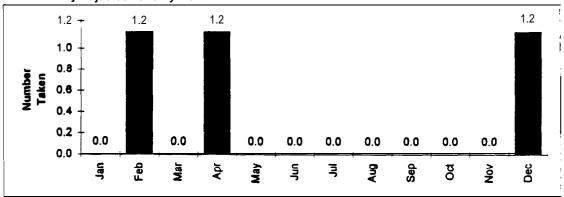
the City of St. Paul and Tribal Government of St. Paul, 1994.

FIGURE 96. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: SAINT PAUL, 1993

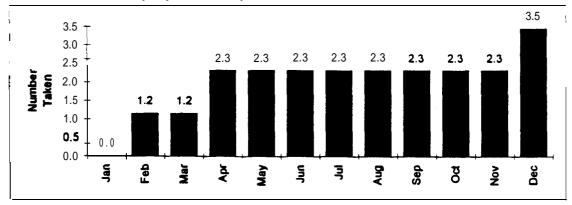
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of St. Paul and Tribal Government of St. Paul, 1994.

SOUTH BRISTOL BAY

TABLE 97. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: EGEGIK. 1993

Total Native **Households**Surveyed **Households**Sampling Fraction
Sample Household Members
Estimated Household Members
116.6

SEALION HARVEST AND USE INFORMATION

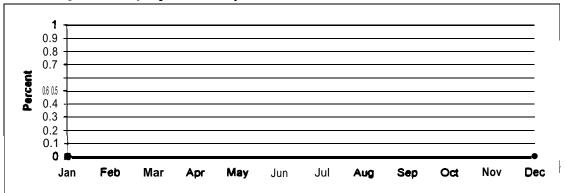
Percent Of Native Hous	eholds:	Estimated Community Harvest and Take (Expende	ed):
used	0.0%	Total Number Harvested	0.0
Hunted	0.0%	Total Number Struck and Lost	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.0%	Number Harvested Per Capita	0.00
Gave Away	0.0%	·	

SEA UON HARV	Est	BY SEA	SON									U	nknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVES	AND	TAKE BY S	SAMPLED	HOUSEHO	DLDS (UN	EXPANDED	O)							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVES	ST AND	TAKE BY	COMMUNI	ГҮ (ЕХРА	NDED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. 0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASO	VALLY	ADJUSTED	HARVES'	AND TAK	E BY CO	MMUNITY (EXPANDE	D)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0. 0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. 0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	_	_	_	_	-	-		-			_	_		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0	0. 0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

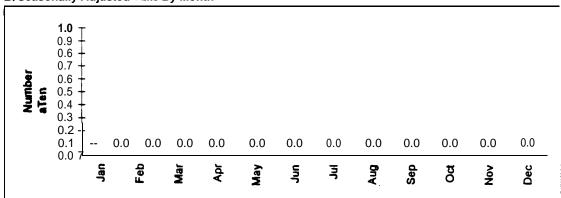
SEA LION HARVEST B Y AGE AND SEX	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Aduit Male	0	#80	0.0	
Aduit Female	0		0.0	
Adult Unknown Sex	0		0.0	
Juvenile Male	0		0.0	
Juvenile Female	0	-	0.0	900
Juvenile Unknown Sex	0		0.0	
Pup Male	0		0. 0	
Pup Female	0	وعمي	0. 0	
Pup Unknown Sex	0		0. 0	-00
Male Unknown Age	0	-	0. 0	-
Female Unknown Age	0		0. 0	_
Unknown Sex and Age	0	-	0. 0	
Total	0		0. 0	

SOURCE:

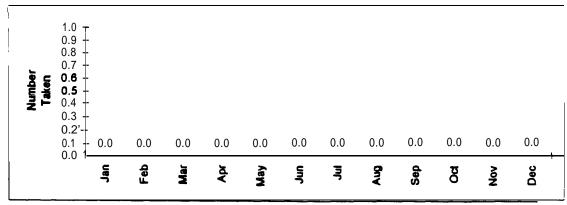
FIGURE 97. SEA LION (Eumdopias jubatus) TAKE ESTIMATES; EGEGIK. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
106

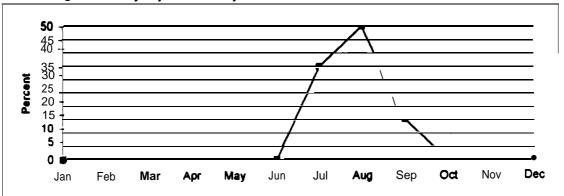
HARBOR SEAL HARVEST AND USEINFORMATION

Percent Of Native Households:	Estimated Community Harvest and Take (Expended):						
Used 30.0%	Total Number Harvested	7.7					
Hunted 17.5%	Total Number Struck and Lost	3.3					
Harvested 7.5%	Total Number Taken	11.0					
Received 30.0% Gave Away 12.5%	Number Harvested Per Capita	0.07					

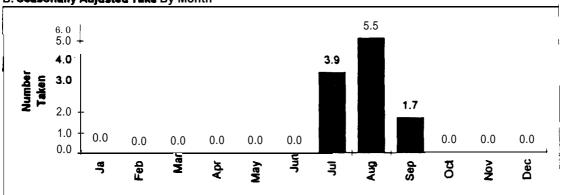
HARBOR SEAL	HARV	EST BY	SEASC	N								Ur	known	
	Jan	Feb	Mm	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec /	lonth	TOW
REPORTED HARVES	ST AND T	TAKE BY S	AMPLED H	OUSEHO	DLDS (UN	EXPANDED)							
Harvest	0	0	0	0	0	0	2	5	0	0	0	0	0	7
Struck and Lost	0	0	0	0	0	0	1	0	1	0	0	0	1	3
Total Take	0	0	0	0	0	0	3	5	1	0	0	0	1	10
ESTI MATED HARVES	ST AND	TAKE BY	COMMUNI T	Y (EXPA	NDED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0. 0	2. 2	5. 5	0.0	0.0	0.0	0.0	0.0	7 7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.1	0.0	0.0	0.0	1.1	3. 3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	3. 3	5. 5	1.1	0.0	0.0	0.0	1. 1	11. 0
ESTI MATED SEASO	NALLY A	ACJUSTED	HARVEST	AND TAK	E BY CO	MMUNITY	(EXPANDE	(D)						
Harvest	0.0	0.0	0.0	0.0	0.0	0. 0	2. 2	5. 5	0.0	0.0	0.0	0.0		77
struck and Lost	0.0	0.0	0. 0	0.0	0.0	0. 0	1.7	0.0	1.7	0.0	0.0	0.0		3. 3
Total Take	0.0	0.0	0.0	0.0	0.0	0. 0	3. 9	5.5	1.7	0.0	0.0	0.0		11.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	35. 0%	50.0%	15.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	3. 9	9.4	11.0	11.0	11.0	11.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	35.0%	55.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SW	Reported By Sample	Percent	Estimated By Community	Percent
A 1 1/2 A 4 1	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0. 0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	5	71.4%	5.5	71.4%
Juvenile Male	2	20.6%	2.2	28.6%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
. Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	7	100.0%	7.7	100.0%

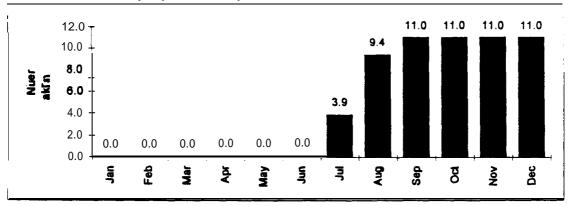
SOURCE:



B. Seasonally Adjusted Take By Month



C. Cumuiatiw Seasonally Adjusted Take By Month



SOURCE:

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
75.0%
75.0%

SEA LION HARVEST AND USE INFORMATION

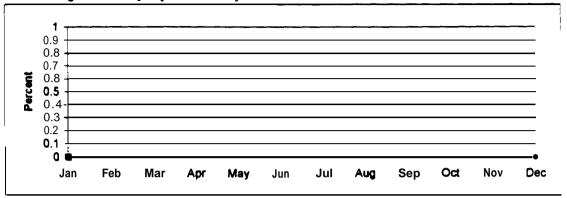
Percent Of Native Hou	seholds:	Estimated Community Harvest and Take (Expanded):						
Used	0.0%	Total Number Harvested	0.0					
Hunted	4.0%	Total Number Struck and Lost _	0.0					
Harvested	0.0%	Total Number Taken	0.0					
Received	0.0%	Number Harvested Per Capita	0.00					
Gave Away	y 0.0%							

SEALION HAF	RVEST	BY SEA	SON									ι	Inknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	oot	Nov	Dec	Month	Tota
REPORTEDHAR	VESTAND	TAKEB'	YSAMPLE	CHOUSEH	OLDS(UN	EXPANDED))							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	
struckandLost	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	(
ESTI MATED HARVE	ST AND	TAKE BY C	OMMUNI	TY (EXPA	NDED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. 0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. (
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. (
ESTIMATE0SEA	SONALLY	ADJUSTE	DHARVES	TANDTA	KEBYCO	MMUNITY	EXPANDE	D)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0. 0	0.0	0.0	0.0	0. 0	0.0	0.0	0.0	0. 0		0.0
Total Take (%)	_	_	_	-		_	***	460	-		_	_		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. 0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

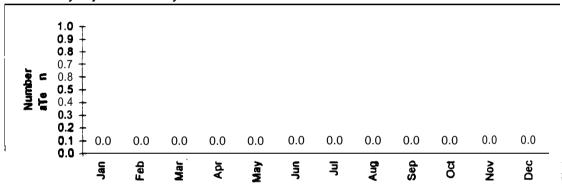
SEA LION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample I	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0		0.0	
Adult Female	0		0.0	
Adult Unknown Sex	0		0.0	***
Juvenile Male	0	•••	0.0	
Juvenile Female	0		0.0	
Juvenile Unknown Sex	0		0.0	
Pup Male	0	***	0.0	
Pup Female	0	•	0.0	***
Pup Unknown Sax	0		0.0	•
Male Unknown Age	0		0.0	
Female Unknown Age	0		0.0	-
Unknown Sex and Age	Ō		0.0	
Total	0		0.0	945

SOURCE:

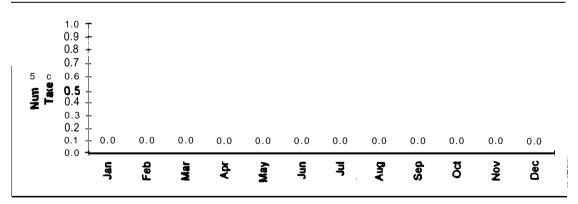
FIGURE 99. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: KING SALMON, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

TABLE 100. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: KING SALMON, 1993

SAMPLING DESIGN: CENSUS

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
57
Estimated Household Members
76.0

HARBOR SEAL HARVEST AND USEINFORMATION

Percent Of Native Households:
Used 38.1%
Hunted 23.8%
Harvested 19.0%
Received 38.1%
Gave Away 23.8%

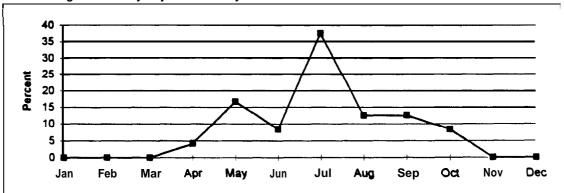
Estimated Community Harvest and Take (Expended):
Total Number Harvested 21.3
Total Number Struck and Lost
10.7
Total Number Taken
32.0
Number Harvested Per Capita
0.28

HARBOR SEAL	HAR	VEST BY	SEASO	ON								t	Inknown	
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVES	T AND	TAKE BY	SAMPLED !	HOUSEH	OLDS (UN	EXPANDED) }							
Harvest	0	0	0	1	3	2	3	3	3	1	0	0	0	16
Struck and Lost	0	0	0	0	1	0	6	0	0	1	0	0	0	8
Total Take	0	0	0	1	4	2	9	3	3	2	0	0	0	24
ESTI MATED HARVES	T AND	TAKE BY	COMMUNI	TY (EXPA	NDED)									
Harvest	0.0	0.0	0.0	1.3	4.0	2. 1	4.0	4.0	4.0	1.3	0.0	0.0	0.0	21.3
Struck and Lost	0.0	0.0	0.0	0.0	1.3	0.0	6. 0	0.0	0.0	1.3	0.0	0.0	0.0	10. 7
Total Take	0.0	0.0	0.0	1.3	5.3	27	12. 0	4.0	4.0	27	0.0	0.0	0.0	32. 0
ESTI MATED SEASON	WLLY	ADJUSTE	HARVEST	AND TAI	E BY CO	MMUNITY (EXPANDE	ED)						
Harvest	0.0	0.0	0.0	1.3	4.0	2.7	4. 0	4. 0	4.0	1.3	0.0	0.0		21.3
Struck and Lost	0.0	0.0	0.0	0.0	1.3	0.0	8.0	0.0	0.0	1.3	0.0	0.0		10. 7
Total Take	0.0	0.0	0.0	1.3	5.3	2. 7	12.0	4.0	4.0	2.7	0.0	0.0		32. 0
Total Take (%)	0.0%	0.0%	0.0%	4. 2%	16. 7%	8.3%	37.5%	12.5%	12.5%	8.3%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	1.3	6. 7	9. 3	21.3	29. 3	29. 3	32. 0	32. 0	32. 0		
Cum. Take (%)	' 0. 0%	0.0%	0.0%	4. 2%	20.8%	29.2%	66.7%	79. 2%	91.7%	100.0%	100.0%	100.0%		

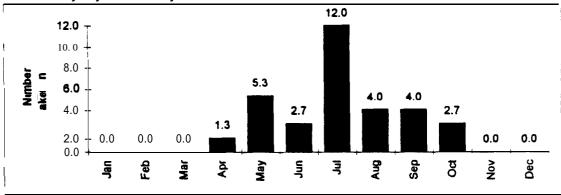
HARBOR SEAL HARVESTBY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	12.5%	2.7	12.5%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	14	87.5%	18.7	87.5%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	18	100.0%	21.3	100.0%

SOURCE:

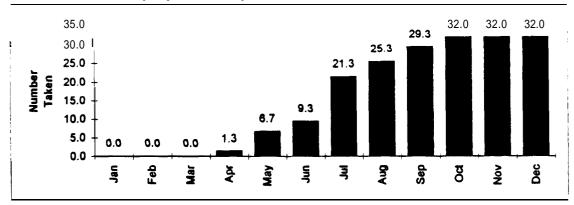
FIGURE 100. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: KING SALMON, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
102.3

SEA LION HARVEST AND USE INFORMATION

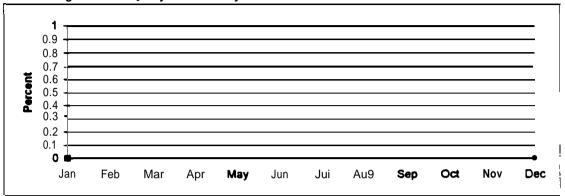
Percent Of Native Hous	eholds:	Estimated Community Harvest and Take (Expande	ed):
used	0.0%	total Number Harvested	0.0
Hunted	0.0%	Total Number Struck and Lost _	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.0%	Number Harvested Per Capita	0.00
Gave Away	0.0%	·	

SEA LION HAR	VEST	BY SEA	SON									l	Inknown	
	Jm	Feb	Mu	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	TOW
REPORTED HARVEST	AND 1	TAKE BY S	AMPLED F	KOUSEHO	LDS (UN	EXPANDED))							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTI MATED HARVE	ST AND	TAKE BY	COMMUNI T	TY (EXPA	NDED)									
Harvest	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTI MATED SEASO	NALLY	ADJUSTED	HARVEST	AND TAK	E BY CO	MUNITY (EXPANDE	D)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	_	_	_	_		_	_	_	-	_	_	_		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%) 0	. 0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

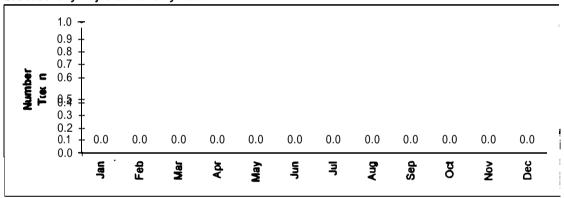
SEALION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0		0.0	
Adult Female	0	_	0.0	
Aduit Unknown Sex	0		0.0	
Juvenile Male	0	-	0.0	
Juvenile Female	O		0.0	
Juveniie Unknown Sex	0	***	0.0	
Pup Male	0		0.0	
Pup Female	0		0.0	
Pup Unknown Sex	0		0.0	
Male Unknown Age	0		0.0	
Female Unknown Age	0		0.0	
Unknown Sex and Age	0	-	0.0	
Total	0		0.0	

SOURCE:

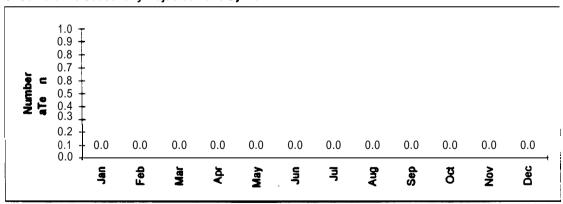
FIGURE 101. SEA UON (Eumetopias jubatus) TAKE ESTIMATES: LEVELOCK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Member9
Festimated Household Members
102.3

HARBOR SEAL HARVEST AND USEINFORMATION

Percent Of Native Households:
Used 20.9%
Hunted 11.5%
Harvested 3.8%
Received 23.1%
Gave Away 7.7%

Estimated Community Harvest and Take (Expended):
Total Number Harvested 2.7
Total Number Struck and Lost
Total Number Taken 8.1
Number Harvested Per Capita 0.03

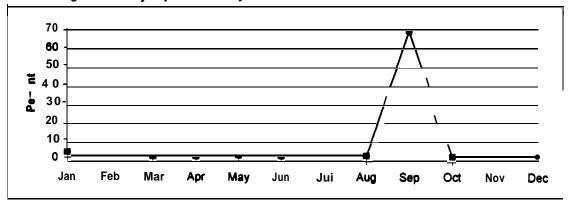
HARBOR SEAL	. HARV	EST BY	SEASO	ON								U	nknown	
_	Jan	Feb	Mar	Apr_	May	Jun	Jul	Aug	Sep_	oot	Nov	Dec	Month	Total
REPORTEDHARV	ESTAND	TAKEBYS	AMPLED	HOUSEH	IOLDS (UN	EXPANDE	D)							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Struck and Lost	0	0	0	0	0	0	0	0	2	0	0	0	2	4
Total Take	0	0	0	0	0	0	0	0	2	0	0	0	4	6
ESTI MATED HARVES	ST AND	TAKE BY C	OMMUN	TY (EXP	NOED)									
Harvest	0.0	0.0	0.0	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2. 7	2. 7
Struck and Lost	0.0	0.0	0.0	0.0	0. 0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	2. 7	5.4
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	5. 4	8. 1
ESTIMATED SEASO	NALLY A	ADJUSTED	HARVES	T AND T	AKE BY C	OMMUNI TY	(EXPAND	ED)						
Harvest	0. 2	0. 2	0. 2	0. 2	0. 2	0. 2	0. 2	0. 2	0. 2	0. 2	0. 2	0. 2		2.7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5. 4	0.0	0.0	0.0		5.4
Total Take	0. 2	0. 2	0. 2	0. 2	0. 2	0. 2	0. 2	0. 2	5. 6	0. 2	0. 2	0. 2		8.1
Total Take (%)	2.9%	2.9%	2.8%	2.9%	2.9%	2.9%	2.9%	2. 9%	09.4%	2.8%	2.9%	2. 8%		100%
Cumulative Take	0. 2	0.4	0. 7	0. 9	1.1	1.3	1.6	1.8	7.4	7. 6	7. 9	8. 1		
Cum. Take (%)	2.9%	5.6%	8. 3%	11.1%	13.9%	16. 7%	19.4%	22. 2%	91.7%	94.4%	97.2%	100.0%		

HARBOR SEAL HARVESTBY AGE AND SEX	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent	
Adult Male	0	0.0%	0.0	0.0%	
Adult Female	0	0.0%	0.0	0.0%	
Adult Unknown Sex	0	0.0%	0.0	0.0%	
Juvenile Male	0	0.0%	0.0	0.0%	
Juvenile Female	0	0.0%	0.0	0.0%	
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	
Pup Male	0	0.0%	0.0	0.0%	
Pup Female	0	0.0%	0.0	0.0%	
Pup Unknown Sex	0	0.0%	0.0	0.0%	
Male Unknown Age	0	0.0%	0.0	0.0%	
Female Unknown Age	. 0	0.0%	0.0	0.0%	
Unknown Sex and Age	2	100.0%	2.7	100.0%	
Total	2	100.0%	2.7	100.0%	

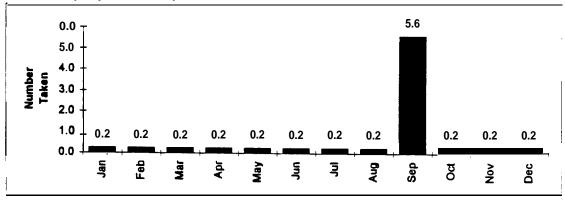
SOURCE:

FIGURE 102. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: LEVELOCK. 1993

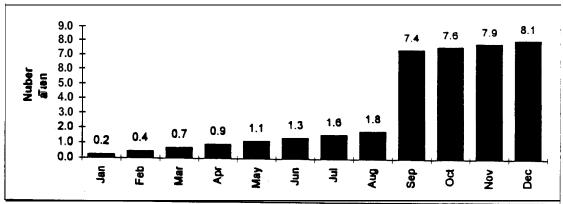
A. Percentage Seasonally Adjueted Take By Month



B. Seasonally Adjueted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

TABLE 103. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: NAKNEK. 1993

SAMPLING DESIGN: TWO STRATA

SOURCE:

Active Other Total

Total Native Households 19 71 90 Surveyed Households 14 26 40

Sampling Fraction 73.7% 36.6% 44.4% Sample Household Members 6 1 8 2 143

Estimated Household Members 82.8 223.9 308.7

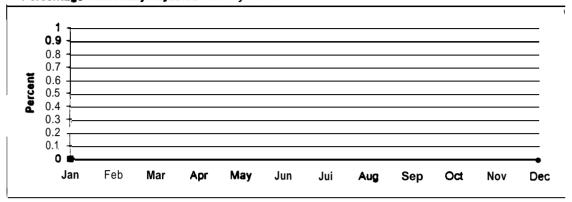
SEA UON HARVEST AND USEINFORMATION

Percent Of Native Hous	eholds:	Estimated Community Harvest and Take (Expand	ed):
used	0.0%	Total Number Harvested	0.0
Hunted	0.0%	Total Number Struck and Lost	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.0%	Number Harvested Per Capita	0.00
Gave Away	0.0%	·	

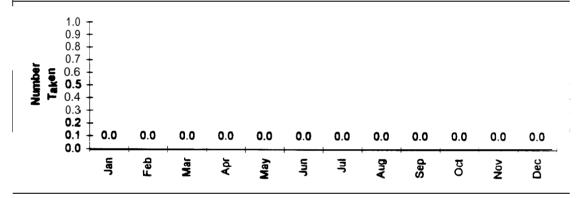
SEA UON HARV	ESI	BY SEA	SUN									τ	nknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST	AND	TAKE BY S	SAMPLED 1	HOUSEHO	LDS (UNE	EXPANDED))							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	C
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	C
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	(
ESTI MATED HARVES	r and	TAKE BY	COMMUNI	TY (EXPAI	NDED)									
Harvest	0.0	0.0	0.0	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. 0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. 0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASON	ALLY	ADJUSTED	HARVES	T AND TAI	KE BY CO	MMUNITY	(EXPANDE	0)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0. 0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	-	_	_	-		-	-	_	_	-	_	_		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGEAND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0		0.0	
Adult Female	0		0.0	
Adult Unknown Sex	0	-	0.0	
Juvenile Male	0		0.0	
Juvenile Female	0		0.0	
Juvenile Unknown Sex	0		0.0	
Pup Male	0		0.0	
Pup Female	0		0.0	
Pup Unknown Sex	0	_	0.0	
Male Unknown Age	0		0.0	
Female Unknown Age	0		0.0	
Unknown Sex and Age	0		0.0	
Total	0		0.0	

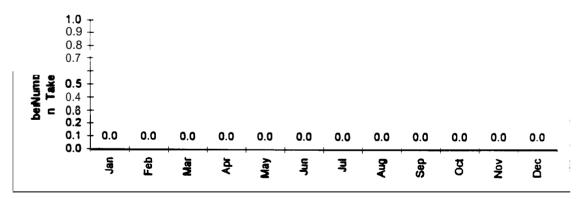
FIGURE 103. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: NAKNEK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

SAMPLING DESIGN:TWO STRATA

Active Other Total

Total Native Households 19 71 90
Surveyed Households 14 28 40
Sampling Fraction 73.7% 36.6% 44.4%
Sample Household Members 61 82 143
Estimated Household Member6 82.8 223.9 306.7

HARBOR SEAL HARVEST AND USEINFORMATION

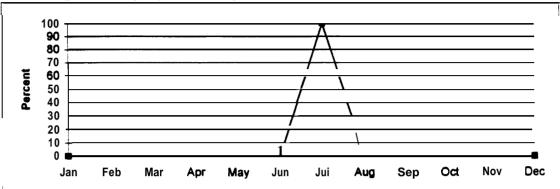
Percent Of Native Hou	seholds:	Estimated Community Harvest and Take (Expande	d):
used	19.7%	Total Number Harvested	2.7
Hunted	1.5%	Total Number Struck and Lost	0.0
Harvested	1.5%	Total Number Taken	2.7
Received	6.1%	Number Harvested Per Capita	0.01
Gave Away	0.0%	·	

HARBOR SEAL	HAR	VEST B	Y SEAS	ON								U	Inknown	
	Jan	Feb	Mar	Apr_	May	Jun	Jul	Aug	Sep_	Oct	Nov	Dec	Month	Total
REPORTED HARVES	ST AND	TAKE BY	SAMPLED	HOUSEH	OLDS (U	NEXPANDE	D)							
Harvest	0	0	0	0	0	0	2	0	0	0	0	0	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	2	0	0	0	0	0	0	2
ESTI MATED HARVES	ST AND	TAKE BY	COMMUNI	TY (EXPA	NDED)									
Harvest	0.0	0.0	0.0	0. 0	0.0	0.0	2. 7	0.0	0.0	0.0	0.0	0.0	0.0	2. 7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	2. 7	0.0	0.0	0.0	0.0	0.0	0.0	2. 7
ESTI MATED SEASOI	NALLY	ADJUSTED	HARVEST	AND TAKE	BY CO	MMUNITY	(EXPAND	ED)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	2. 7	0.0	0.0	0.0	0.0	0.0		2.7
Struck and Lost	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0. 0	0.0	0.0	0.0	0.0	0.0	2. 7	0.0	0.0	0.0	0.0	0.0		2.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	2. 7	2.7	2. 7	2.7	2.7	2. 7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

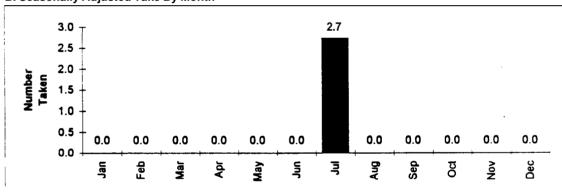
HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	2	100.0%	2.7	100.0%
Total	2	100.0%	2.7	100.0%

SOURCE:

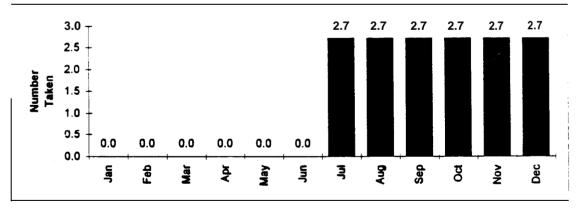
FIGURE 164. HARBOR SEAL (Phoca vituiina) TAKE ESTIMATES: NAKNEK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

TABLE 106. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: PILOT POINT, 1993

SAMPLING DESIGN: CENSUS

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
68.6

SEA LION HARVEST AND USEINFORMATION

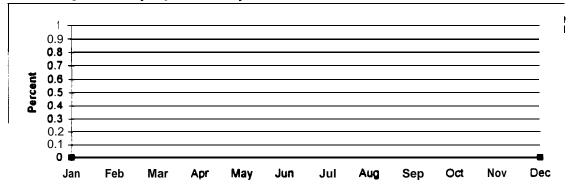
Percent Of Native Hous	eholds:	EstimatedCommunityHarvest andTake (Expande	d):
Used	0.0%	Total Number Harvested	0.0
Hunted	0.0%	Total Number Struck and Lost _	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.0%	Number Harvested Per Capita	0.00
Gave Away	0.0%	·	

SEA LION HARV	EST	BY SEA	SON									U	Inknown	
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST	AND	TM BY S	AMPLED 1	HOUSEHO	LDS (UI	NEXPANDE	D)							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
struck and Lou	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTI MATED HARVEST	AND	TAKE BY	COMMUNI	TY (EXPA	NDED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lou	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTI MATED SEASONA	LLY .	ADJUSTED	HARVEST	AND TAK	E BY C	OMMUNI TY	(EXPANDE	D)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	a 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	-	-	_	-	_			_		•	-			
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.09	6 0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

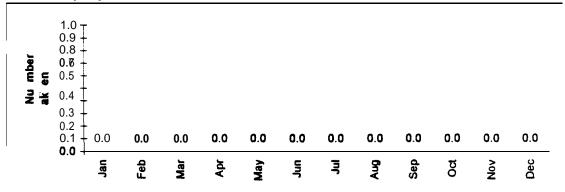
SEA LION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0		0.0	
Adult Female	0		0.0	
Adult Unknown Sex	0	•••	0.0	
Juvenile Male	0		0.0	
Juvenile Female	0		0.0	
Juvenile Unknown Sex	0		0.0	
Pup Male	0		0.0	***
Pup Female	. 0		0.0	
Pup Unknown Sex	0		0.0	***
Male Unknown Age	0		0.0	
Female Unknown Age	0	-	0.0	***
Unknown Sex and Age	ŏ		0.0	
Total	- 0		0.0	

SOURCE:

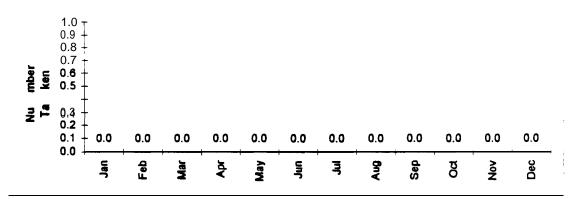
FIGURE 105. SEA LION (Eumotopirs jubatus) TAKE ESTIMATES: PILOT POINT, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Total Native Households	27
Surveyed Households	25
Sampling Fraction	92.8%
Sample Household Members	82
Estimated Household Members	88.8

HARBOR SEAL HARVEST AND USEINFORMATION

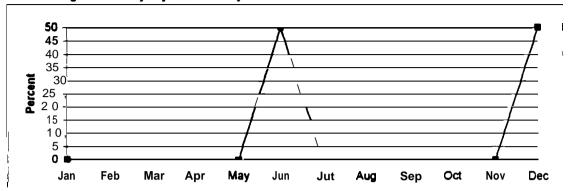
Percent Of Native Hou	seholds:	Estimated Community Harvest and Take (Expande	ed):
used	10.0%	Total Number Harvested	2.2
Hunted	8.0%	Total Number Struck and Lost 0	. 0
Harvested	8.0%	Total Number Taken	2.2
Received	12.0%	Number Harvested Per Capita	0.02
Gave Away	0.0%	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	

HARBOR SEAL	HAR	VESTBY	SEASO	N								U	nknown	
	Jan	Feb	Mar	Apr	_May_	Jun	Jul	Aug	Sop	Oct	Nov	Dec	Month	Total
REPORTED HARVES	T ANO	TAKE BY	SAMPLED	HOUSEHO	DLDS (UN	(EXPANDED								
Harvest	0	0	0	0	0	1	0	0	0	0	0	1	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	1	0	0	0	0	0	1	0	2
ESTI MATEO HARVE	ST ANI	TAKE 8Y	COMMUNIT	TY (EXPA	NDED)									
Harvest	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1. 1	0.0	2. 2
Struck and Lou	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 0
Total Take	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1	0.0	2. 2
ESTI MATED SEASO	NALLY	ADJUSTED	HARVEST	AND TAK	E BY CO	MMUNITY	(EXPANDE	D)						
Harvest	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1		2. 2
Struck and Lost	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0. 0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1		2. 2
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1. 1	2. 2		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	100.0%		

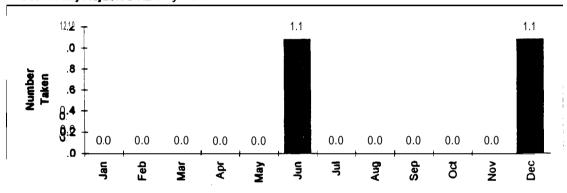
HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	1	50.0%	1.1	50.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	50.0%	1.1	50.0%
Pup <i>Male</i>	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	2	100.0%	2.2	100.0%

SOURCE:

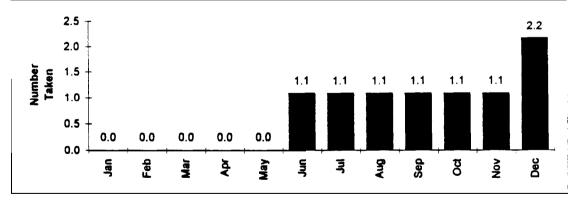
FIGURE 106. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: PILOT POINT, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
U
Estimated Household Members
67.5

SEA LION HARVEST AND USEINFORMATION

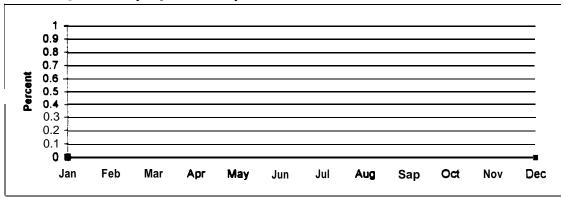
Percent Of Native Hous	eholds:	Estimated Community Harvest and Take (Expande	ed):
used	0.0%	Total Number Harvested	0.0
Hunted	0.0%	Total Number Struck and Lost	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.0%	Number Harvested Per Capita	0.00
Gave Away	0.0%	·	

SEA LION HAR	RVESTE	Y SEAS	SON									U	inknown	
	Jan	Feb	Mar	Apr	May_	Jun	ایال	Aug	Sep_	oot	Nov	Dec	Month	Total
REPORTED HARVEST	AND TAI	KE BY SA	MPLED 🗜	OUSEHO	LDS (UNI	EXPANDED))							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVE	EST AND	TAKE BY	COMMUNIT	ГҮ (ЕХРА	NDED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTI MATED SEASC	NALLY A	DJUSTED	HARVEST	AND TAK	E BY CO	YTINUMN	(EXPANDEI))						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	_	-	-	_	_	-	_	***	_	_	_			
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

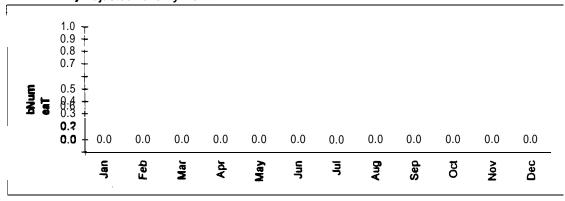
SEA LION HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0		0.0	
Adult Female	0	740	0.0	***
Adult Unknown Sex	0		0.0	
Juvenile Male	0	***	0.0	•••
Juvenile Female	0	***	0.0	
Juvenile Unknown Sex	0		0.0	
Pup Male	0		0.0	
Pup Female	0	-	0.0	
Pup Unknown Sex	0		0.0	
Male Unknown Age	0		0.0	***
Female Unknown Age	0		0.0	
Unknown Sex and Age	Ŏ	•••	0.0	
Total	0		0.0	

SOURCE:

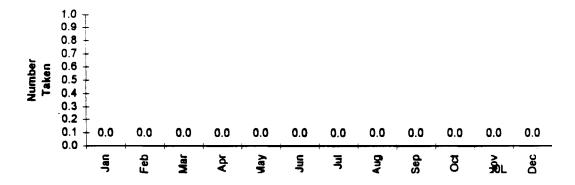
FIGURE 107. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: PORT HEIDEN, 1993



B. Seasonally Adjusted Take By Month



G. Cumulative Seasonally Adjusted Take By Month



Total Native Households	23
Surveyed Households	15
Sampling Fraction	65.2%
Sample Household Members	U
Estimated Household Members	67.5

HARBOR SEAL HARVESTAND USEINFORMATION

Perwnt Of Native Households:	Estimated Community Harvest and Take (Expande	ed):
used 66.7%	Total Number Harvested	30.7
Hunted 60.0%	Total Number Struck and Lost	19.9
Harvested 40.0%	Total Number Taken	50.6
Received 86.7%	Number Harvested Per Capita	0.45
Gave Away 60.0%	·	

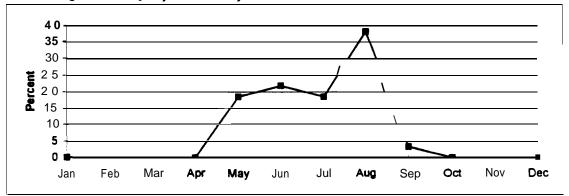
HARBOR SEAL	HAR	VEST B	Y SEASC	ON								U	nknown	
	Jan	Feb	Мu	Apr	May	Jun	Jul	Aug	Sep_	Oct	Nov	Dec	Month	Tota
REPORTED HARVES	TAND	TAKEBY	SAMPLED	HOUSEH	OLDS(UN	EXPANDE	D)							
Harvest	0	0	0	0	5	5	5	5	0	0	0	0	0	2 (
Struck and Lost	0	0	0	0	1	2	1	7	1	0	0	0	1	13
Total Take	0	0	0	0	6	7	6	12	1	0	0	0	1	33
ESTI MATED HARVE	ST AND	TAKE BY	COMMUNIT	TY (EXPA	NDED)									
Harvest	0.0	0.0	0.0	0.0	7.7	7.7	1.7	7. 1	0.0	0.0	0.0	0.0	0.0	30.7
Struck and Lost	0.0	0.0	0.0	0.0	1.5	3. 1	1.5	10.7	1.5	0.0	0.0	0.0	1.5	19. 9
Total Take	0.0	0.0	0.0	0.0	9. 2	10.7	9. 2	18. 4	1.5	0.0	0.0	0.0	1.5	60. 6
ESTI MATED SEASO!	NALLY A	NOJUSTED	HARVEST	AND TAK	E BY CO	MMUNITY	(EXPANDE	ED)						
Harvest	0.0	0.0	0.0	0.0	7.7	7.7	7. 7	7.7	0.0	0.0	0.0	0.0		30.7
Struck and Lost	0.0	0.0	0.0	0.0	1.7	3. 3	1.7	11.6	1.7	0.0	0.0	0.0		19.9
Total Take	0.0	0.0	0.0	0.0	9.3	91.0	9. 3	19.3	1.7	0.0	0.0	0.0		50.6
Total Take (%)	0.0%	0.0%	0.0%	0.0%	18.4%	21.7%	18.4%	38.1%	3. 3%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	9. 3	20. 3	29. 6	40. 9	60.6	60. 6	60.6	50. 6		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	18. 4%	40. 2%	58.6%	96. 7%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0. 0	0.0%
Adult Female	1	5.0%	1.5	5.0%
Adult Unknown Sex	18	90.0%	27.0	90.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female U nknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	5.0%	1.5	5.0%
Total	20	100.0%	30.7	100.0%

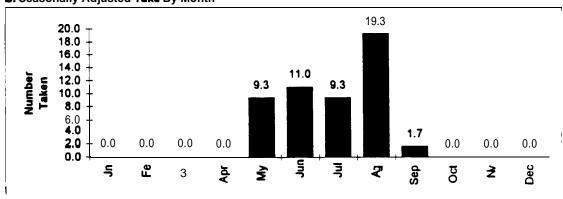
SOURCE:

FIGURE 108. HARBOR SEAL (Phocr vitulina) TAKE ESTIMATES: PORT HEIDEN, 1993

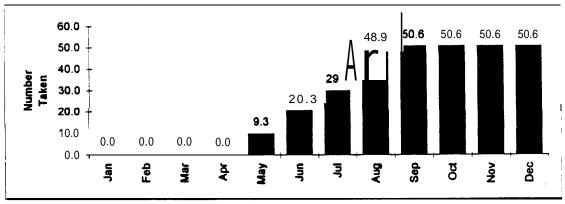
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Total Native Households 3s
Surveyed Households 33
Sampling Fraction 94.3%
Sample Household Members 99
Estimated Household Members 105.0

SEALION HARVEST AND USEINFORMATION

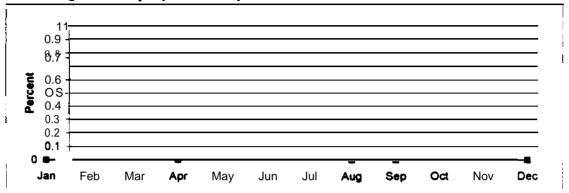
Percent Of Native House	eholds:	Estimated Community Harvest and Take (Expande	ed):
used	0.0%	Total Number Harvested	0.0
Hunted	0.0%	Total Number Struck and Lost _	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.0%	Number Harvested Per Capita	0.00
Gave Away	0.0%		

SEA LION HARV	EST	BY SEA	SON									Ţ	Jnknown	
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Month	Total
REPORTED HARVEST	AND	TAKE BY	SAMPLED	HOUSEH	OLDS (UN	IEXPANDED)							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTI MATED HARVEST	AND	TAKE BY	COMMUNI T	Y (EXPA	NDED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. 0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTI MATED SEASON	ALLY /	ADJUSTED	HARVEST	AND TAK	E BY CO	YTINUMN	(EXPANDE	D)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0. 0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0. 0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	_	_	_	_						_		_		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0	% 0.0%	6 0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

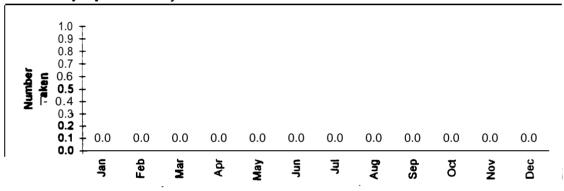
SEA LION HARVESTBY AGE AND SEX	Reported		Estimated
	By Sample	Percent	By Community Percent
	(Unexpanded)		(Expanded)
Adult Male	0		0.0
Adult Female	0		0. 0
Adult Unknown Sex	0		0. 0
Juvenile Male	0		0. 0
Juvenile Female	0		0. 0
Juvenile Unknown Sex	0		0. 0
Pup Male	0	-	0. 0
Pup Female	0		0.0
Pup Unknown Sex	0		0. 0
Male Unknown Age	0		0. 0
Female Unknown Age	0		0.0
Unknown Sex and Age	0		0. 0
Total	0	_	0.0

SOURCE:

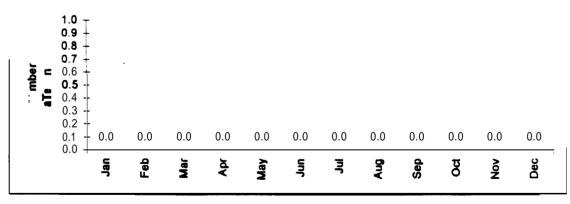
FIGURE 109. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: SOUTH NAKNEK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
105.0

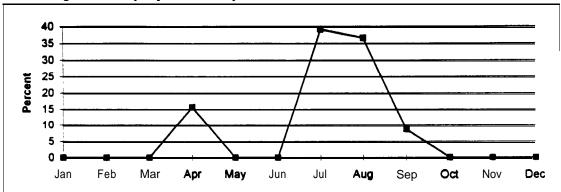
HARBOR SEAL HARVEST AND USEINFORMATION

Percent Of Native Households:	Estimated Community Harvest and Take (Expande	ed):
Used 42.4%	Total Number Harvested	6.4
Hunted 33.3%	Total Number Struck and Lost _	18.0
Harvested 12.1%	Total Number Taken	24.4
Received 39.4%	Number Harvested Per Capita	0.06
Gave Away 15.2%	·	

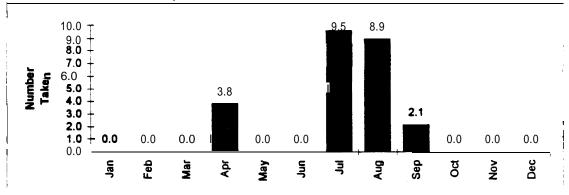
HARBOR SEAL	HARV	EST BY	SEASC)N								U	nknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARVES	T AND	TAKE BY	SAMPLED	HOUSEHOL	DS (UI	NEXPANDED)							
Harvest	0	0	0	3	0	0	0	2	0	0	0	0	1	•
Struck and Lost	0	0	0	0	0	0	9	6	2	0	0	0	0	17
Total Take	0	0	0	3	0	0	9	8	2	0	0	0	1	23
ESTIMATED HARVES	T AND	TAKE BY	COMMUNI T	TY (EXPANI	DED)									
Harvest	0.0	0.0	0. 0	3. 2	0.0	0.0	0.0	2. 1	0.0	0.0	0.0	0.0	1.1	6.
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	9.5	6. 4	2. 1	0.0	0.0	0.0	0.0	18.
Total Take	0.0	0.0	0.0	3. 2	0.0	0.0	9. 5	as	2. 1	0.0	0.0	0.0	1.1	24. 4
ESTIMATED SEASO	NALLY/	ADJUSTEI	DHARVES	STANDTAKI	EBYCC) YTINUMMC	EXPANDE	ED)						
Harvest	0.0	0.0	0. 0	3. 8	0.0	0.0	0.0	2. 5	0.0	0.0	0.0	0.0		6.
Struck and Lost	0.0	0.0	0. 0	0.0	0.0	0.0	9. 5	6. 4	2. 1	0.0	0.0	0.0		18.
Total Take	0.0	0.0	0.0	3.8	0.0	0.0	9. 5	a9	2. 1	0.0	0.0	0.0		24.
Total Take (%)	0.0%	0.0%	0.0%	15.7%	0.0%	0.0%	39.1%	36.5%	8.7%	0.0%	0.0%	0.0%		1009
Cumulative Take	0.0	0.0	0. 0	3. 8	3.8	3. 0	13. 4	22.3	24. 4	24. 4	24. 4	24 4		
Cum. Take (%)	0.0%	0.0%	0.0%	15. 7%	5.7%	1 S . R	54.8%	91.3%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVESTBY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	5	83.3%	5.3	83.3%
Juvenile Yale	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	16.7%	1.1	16.7%
Total		100.0%		100.0%

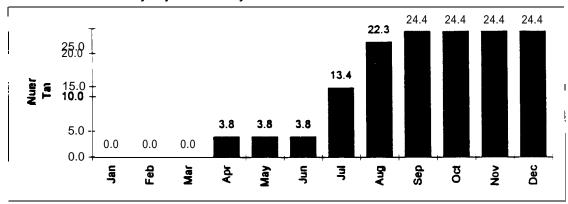
SOURCE:



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

NORTH BRISTOL BAY

Total Native Households
SurveyedHouseholds
Sampling F mction
Sample Household Members
Estimated Household Members
143.2

SEALION HARVEST AND USE INFORMATION

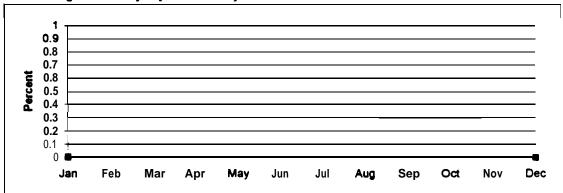
Percent Of Native Hous	eholds:	Estimated Community Harvest and Take (Expande	Estimated Community Harvest and Take (Expanded):								
used	0.0%	Total Number Harvested	0.0								
Hunted	0.0%	Total Number Struck and Lost _	0.0								
Harvested	0.0%	Total Number Taken	0		0						
Received	0.0%	Number Harvested Per Capita	0.00								
Gave Away	0.0%										

SEA LION HARV	/EST	BY SEA	ASON									U	Inknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep_	Oct	Nov	Dec	Month	Tota
REPORTED HARVEST	AND	TAKE BY	SAMPLED	HOUSEHO	LDS (UN	EXPANDE))							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTI MATED HARVEST	AND	TAKE BY	COMMUNIT	Y (EXPA	NDED)									
Harvest	0.0	0. 0	0.0	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0. 0	0.0	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTI MATED SEASON	ALLY	ADJUSTED	HARVEST	AND TAI	KE BY CO	MMUNITY	(EXPANDE	D)						
Harvest	0.0	0. 0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0. 0	0. 0	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	_	-	_	_	-	_	_	_	-	-	_	_		
Cumulative Take	0.0	0. 0	0. 0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0. 0	0. 0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

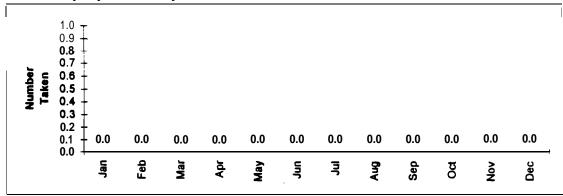
SEA LION HARVEST B Y AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0		0.0	***
Adult Female	0		0.0	
Adult Unknown Sex	0		0.0	
Juvenile Male	0		0.0	
Juvenile Female	0		0.0	***
Juvenile Unknown Sex	0		0.0	***
Pup Male	0		0.0	-
Pup Female	0		0.0	***
Pup Unknown Sex	0		0.0	
Male Unknown Age	0		0.0	
Female Unknown Age	0		0.0	
Unknown Sex and Age	0		0.0	
Total	0	070	0.0	

SOURCE:

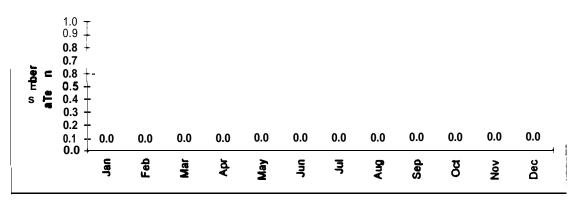
FIGURE 111. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: ALEKNAGIK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

TABLE 112. HARBOR SEAL AND SPOTTED SEAL HARVEST AND TAKE ESTIMATES: ALEKNAGIK, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	37
Surveyed Households	23
Sampling Fraction	62.2%
Sample Household Members	89
Estimated Household Members	143.2

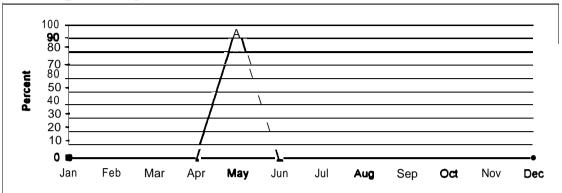
HARBOR SEAL AND SPOTTED SEAL HARVEST AND USEINFORMATION

Percent Of Native Households:	Estimated Community Harvest antiTake (Expande	∍d):
Used 91.3%	Total Number Harvested	4.8.
Hunted 34.8%	Total Number Struck and Lost	0.0
Harvested 8.7%	Total Number Taken	4.8
Received 82.8%	Number Harvested Per Capita	0.03
Gave Away 21.7%	·	

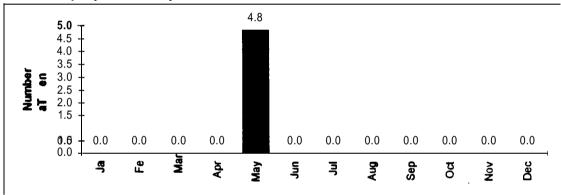
HARBOR SEAL	AND	SPOTTI	ED SEAL	HAR	VEST BY	SEASON	V					ι	Inknown	
	Jan	Feb	Mar	_Apr_	May	Jun	أيال	Aug	Sep_	oot	Nov	Dec	Month	Total
REPORTED HARVES	AND	TAKE BY S	AMPLED HO	DUSEH	OLDS (UNE	XPANDED))							
Harvest	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	3	0	0	0	0	0	0	0	0	3
ESTIMATED HARVES	ST AND	TAKE BY	COMMUNI TY	(EXPA	NDED)									
Harvest	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
ESTI MATED SEASON	ALLY A	DJUSTED	HARVEST A	NO TAK	E BY CON	IMUNITY (EXPANDE	D)						
Harvest	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4.8
Total Take (%)	0.09	% 0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	Q.Q	4. 0	4.8	4.8	4.8	4.8	4.8	4.8	4.8		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL AND SPOTTED SEAL	Reported		Estimated	
HARVEST BY AGE AND SEX	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	33.3%	1.8	33.3%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	2	89.7%	3.2	86.7%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	3	100.0%	4.8	100. 0%

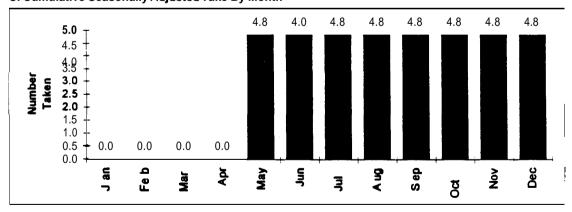
SOURCE:



0. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Total Native Households	37
Surveyed Households	23
Sampling Fraction	62.2%
Sample Household Members	89
Estimated Household Members	143.2

ISSURIQ HARVEST AND USE INFORMATION

HARBOR SEAL HARVESTINFORMATION

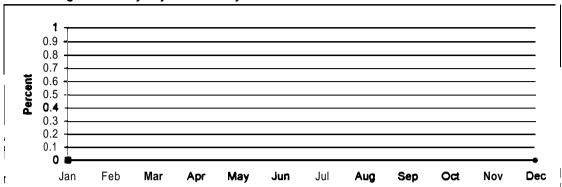
Percent Of Native House	seholds:	Estimated Community Harvest and Take (Expande	ed):
used	91.3%	Total Number Harvested	0.0
Hunted	34.8%	Total Number Struck and Lost _	0.0
Harvested	8.7%	Total Number Taken	0.0
Received	82.8%	Number Harvested Per Capita	0.00
Gave Away	21.7%		

HARBOR SEAL	HARV	EST B	Y SEAS	ON								U	nknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep_	Oct	NW	Dec	Month	Total
REPORTED HARVEST	Γ AND Τ	AKE BY	SAMPLED	HOUSEHO	LDS (UN	EXPANDED	0)							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTI MATED HARVES	ST AND T	TAKE BY	COMMUN	IITY (EXPA	NDED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	00	0.0	0.0	0.0	0.0	0 0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. 0	0.0
ESTIMATED SEASON	NALLY AI	DJUSTED	HARVEST	AND TAK	E BY CO	YTINUMN	(EXPANDE	0)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)			_	_			-	-	-	-	_	-		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

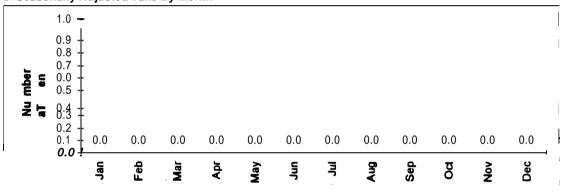
Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
0	-00	0. 0	
0		0.0	
0		0.0	***
0	***	0.0	***
0		0.0	***
0		0.0	***
0	-	0.0	***
0		0.0	
0	-	0.0	
0		0.0	***
0		0.0	
0		0.0	***
0		0. 0	
	By Sample (Unexpanded) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	By Sample (Unexpanded) 0	By Sample (Unexpanded) CExpanded) (Expanded) (Exp

SOURCE:

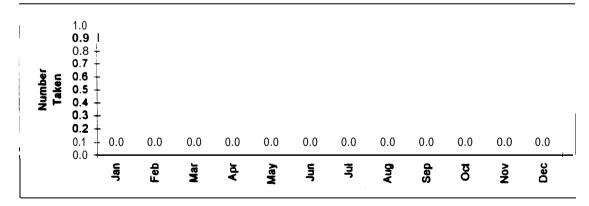
FIGURE 113. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: ALEKNAGIK. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, $\operatorname{Divi}\operatorname{si}\operatorname{on}$ of Subsistence Subsistence Study and Monitor System for Sea $\operatorname{Li}\operatorname{ons}$ and Harbor Seals in Alaska, with assistance from the Aleknagik TribalCouncil, 1994.

TABLE 114. SPOTTED SEAL (Phoca largha) HARVEST AND TAKE ESTIMATES: ALEKNAGIK. 1993

SAMPLING DESIGN: CENSUS

Total Native Households 37
Surveyed Households 23
Sampling Fraction 82.2%
Sample Household Members 89
Estimated Household Memben 143.2

ISSURIQ HARVEST AND USE INFORMATION

SPOTTED SEAL HARVEST INFORMATION

Percent (NativeHouseholds: Estimated Community Harvest and Take (Expanded):

Used 91.3%

Hunted 34.8%

Total Number Struck and Lost

Number Taken 4 . 8

Received 82.0%

Received 82.0%

Gave Away 21.7%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested Per Capita 0.03

SPOTTED SEA	L HAR	VEST BY	Y SEAS	ON								U	nknown	
	Jan	Feb	Mar	Apr_	May	Jun	ابدل	Aug	Sep_	Oct	Nov	Dec	Month	TOV
REPORTEDHAR	RVESTA	NOTAKEB	YSAMPLE	EDHOUS	EHOLDS (UNEXPANDI	ED)							
Harvest	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Struck ● Lost	Ò	Ô	Ô	Ď,	Ò	Ò	Ô	Ô	Ô	Ô	Ô	Ò	Ô	Ô
Total Take	Ô	Ô	Ô	Ô	3	Ô	Ô	Ô	Ô	Ô	Ô	Ô		3
ESTI MATED HARVI	EST AND	TAKE BY	COMMUNI	TY (EXP	ANDED)									
Harvest	0.0	0.0	0.0	0.0	4 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
ESTI MATED SEASO	NALLY AC	JUSTED I	HARVEST A	ND TAK	ESYCON	MUNIT	(EXPAND	€D)						
Harvest	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4.0
struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4.8
Total Take (X)	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	4.8	4.8	4.8	4.8	4.8	4.0	4.8	4.8		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

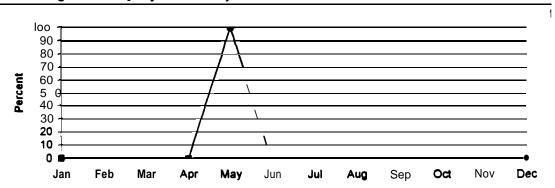
SPOTTED SEAL HARVEST BY AGE AND SEX	Reported		Estimated		
	By Sample	Percent	By Community	Percent	
	(Unexpanded)		(Expanded)		
Adult Male	1	33.3%	1.6	33.3%	
Adult Female	0	0.0%	0.0	0.0%	
Adult Unknown Sex	2	66.7%	3.2	89.7%	
Juvenile Male	0	0.0%	0.0	0.0%	
Juvenile Female	0	0.0%	0.0	0.0%	
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	
Pup Male	0	0.0%	0.0	0.0%	
Pup Female	0	0.0%	0.0	0.0%	
Pup Unknown Sex	0	0.0%	0.0	0.0%	
Male Unknown Age	0	0.0%	0.0	0.0%	
Female Unknown Age	0	0.0%	0.0	0.0%	
Unknown Sex and Age	0	0.0%	0.0	0.0%	
Total	3	100.0%	4.8	100.0%	

Alaska Department of Fi sh and Game. Division of Subsistence, Subsistence Study and Monitor System for See I i ons and Harbor Seals in Alaska, with ● sd8tmta from

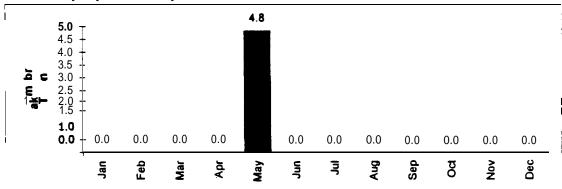
me Aleknagik Tribai Counci l . 1994.

SOURCE:

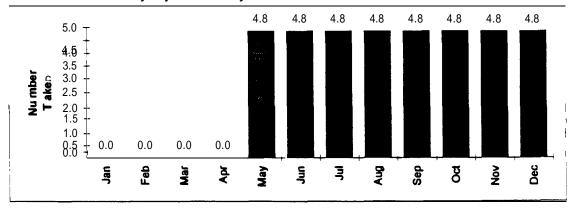
FIGURE 114. SPOTTED SEAL (Phoca largha) TAKE ESTIMATES: ALEKNAGIK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

TABLE 115. SEA LION (Eumetopias jubatus) HARVEST AND TARE ESTIMATES: CLARK'S POINT, 1993

SAMPLING DESIGN: CENSUS

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
40.0

SEA LION HARVEST AND USEINFORMATION

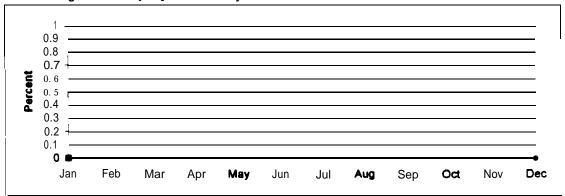
Percent Of Native Hous	eholds:	Estimated Community Harvest and Take (Expande	∌d):
used	0.0%	Total Number Harvested	0.0
Hunted	0.0%	Total Number Struck and Lost	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.0%	Number Harvested Per Capita	0.00
Gave Awsy	0.0%	·	

SEA LION HAR	VESTE	Y SEAS	SON									τ	Inknown	
	Jan	Feb	Mar	Apr_	May_	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND	TAKE BY	SAMPLED (HOUSEHO	OLDS (UN	IEXPANDED)							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVE	ST AND	TAKE BY	COMMUNI 7	TY (EXPAI	NDED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. 0
ESTI MATED SEASO	NALLY A	DJUSTED	HARVEST	AND TAK	E BY CO	MUNITY	EXPANDE	D)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. 0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	_	_	-	_	_	_	_	-				_		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

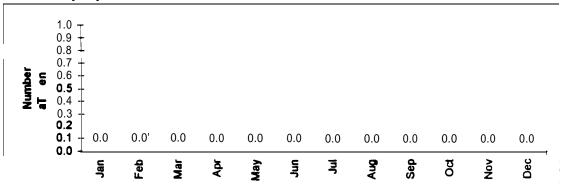
SEA LION HARVEST BY AGE AND SEX	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent	
Adult Male	0		0.0		
Adult Female	0		0.0		
Adult Unknown Sex	0		0.0		
Juvenile Male	0		0.0		
Juvenile Female	0	***	0.0		
Juvenile Unknown Sax	0		0.0	***	
Pup Male	0		0.0		
Pup Female	0		0. 0		
Pup unknown Sex	0		0. 0	***	
Male Unknown Age	0		0.0	***	
Female Unknown Age	0		0.0		
Unknwm Sex and Age	0		0.0		
Total	0		0.0	•••	

SOURCE:

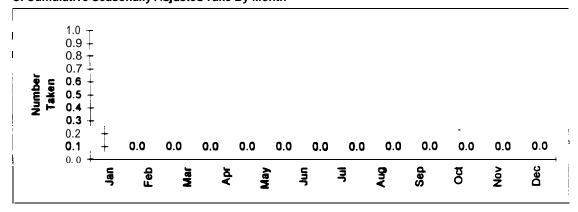
FIGURE 116. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: CLARK'S POINT, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

TABLE 116. HARBOR SEAL AND SPOTTED SEAL HARVEST AND TAKE ESTIMATES: CLARK'S POINT. 1993

SAMPLING DESIGN: CENSUS

Total Nstive Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
40.0

HARBOR SEAL AND SPOTTED SEAL HARVEST AND USEINFORMATION

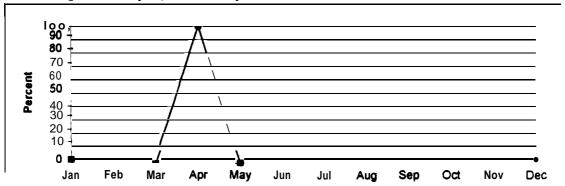
Percent Of Native Hou	seholds:	Estimated Community Harvest and Take (Expand	Estimated Community Harvest and Take (Expanded):						
used	13.3%	Total Number Harvested	2.0						
Hunted	20.0%	Total Number Struck and Lost	0.0						
Harvested	0.7%	Total Number Taken	2.0						
Received	6.7%	Number Harvested Per Capita	0.05						
Gave Away	0.7%	·							

HARBOR SEAL	AND	SPOTT	ED SEA	L HARV	Est BY	sEAso.	N					U	inknown	
	Jan	Feb	Mar	Apr_	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST AND	TAKE BY	SAMPLED	HOUSEH	OLDS (UN	EXPANDE	O)							
Harvest	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	2	0	0	0	0	0	0	0	0	0	2
ESTI MATED HARVES	T AND	TAKE BY	COMMUNI	TY (EXPA	NDED)									
Harvest	0.0	0. 0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2. 0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0. 0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0. 0	0.0	0.0	0.0	2. 0
ESTIMATED SEASO	NALLY.	ADJUSTED	HARVES	T AND TAI	KE BY CO I	MMUNITY	(EXPANDE	ED)						
Harvest	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2. 0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.0
Total Take (X)	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	2. 0	2.0	2. 0	2.0	2. 0	2. 0	2. 0	2. 0	2.0		
Cum. Take (%)	0.0%	6 0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

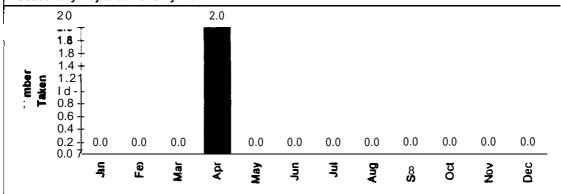
HARBOR SEAL AND SPOTTED SEAL HARVEST BY AGE AND SEX	Reported By Sample (Unexpanded)	Percent	Estimated By Communi ty (Expanded)	Percent
Adult Male	2	100.0%	2.0	100.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	2	100.0%	2.0	100.0%

SOURCE:

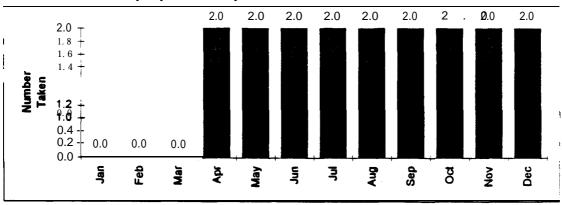
FIGURE 116. HARBOR SEAL ANO SPOTTED SEAL TAKE ESTIMATES: CLARK'S POINT, 1993



B. Ssssonslly Adjusted Tsks By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

SAMPLING DESIGN: CENSUS

SOURCE:

Total **Native** Households 15 Surveyed Households 15 Sampling Fraction 100.0% Sample Household Members 40 Estimated Household Members 40.0

ISSURIQ HARVEST AND USE INFORMATION

HARBOR SEAL HARVEST INFORMATION

0.0

0.0

0.00

Total Number Harvested

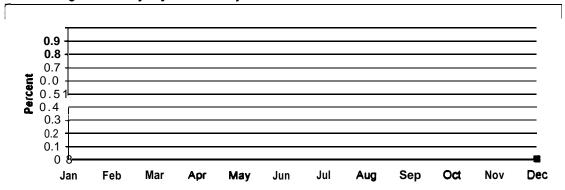
Total Number Taken

Percent Of Native Households: Estimated Community Harvest and Take (Expanded): used 13.3% Hunted 20.0% Total Number Struck and Lost 0.7% Harvested Number Harvested Per Capita 6.7% Received 6.7% Gave Away

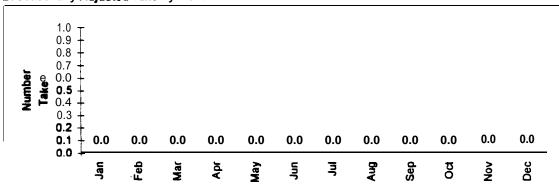
HARBOR SEAL I	HAR	/EST BY	SEASC	N								U	Inknown	
	Jan	7 Feb	Mar	Apr_	May	Jun	Jut	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST	ANO	TAKE BY	SAMPLED	HOUSEHOL	DS (UNI	XPANDED)							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTI MATED HARVEST	AND	TAKE BY	COMMUNI	TY (EXPANI	DED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTI MATED SEASON	ALLY A	ADJUSTED	HARVEST	AND TAKE	BY COM	AMUNITY (E	EXPANDE	D)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	_	_	_		_	_	_	_	_		-	-		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0. 0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

HARBOR SEAL HARVEST BY AGE AND SEX	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0		0.0	
Adutt Female	0		0.0	
Adult Unknown Sex	0		0. 0	
Juvenile Male	0	***	0.0	***
Juvenile Female	0		0.0	
Juvenile Unknown Sex	0		0.0	-
Pup Male	0		0.0	
Pup Female	0		0. 0	
Pup Unknown Sex	0		0. 0	
Male Unknown Age	0		0. 0	
Female Unknown Age	0		0. 0	-
Unknown Sex and Age	0		0.0	
Total	0	***	0.0	400

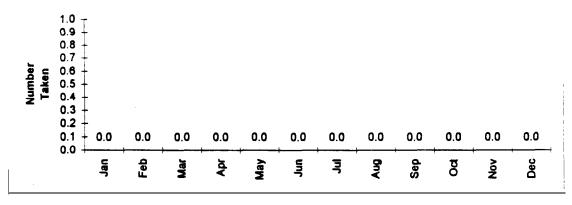
FIGURE 117. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: CLARK'S POINT, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

SAMPLING DESIGN: CENSUS

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Memben
Estimated Household Members

15
100.0%
40
40
40

ISSURIQ HARVEST AND USE INFORMATION

SPOTTED SEAL HARVESTINFORMATION

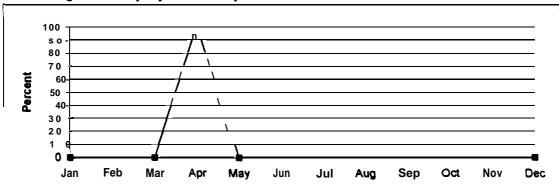
Percent Of Native House	seholds:	Estimated Community Harvest and Take (Expand	led):
used	13.3%	Total Number Harvested	2.0
Hunted	20.0%	Total Number Struck and Lost	0.0
Harvested	6.7%	Total Number Taken	2.0
Received	6.7%	Number Harvested Per Capita	0.05
Gave Away	y 6.7%	·	

SPOTTED SEAL	_ HAF	RVESTB	Y SEAS	ON								U	nknown	
	Jan	Feb	Mu	Apr	May	Jun	Jul	Aug	Sep	oot	Nov	Dec	Month	Tota
REPORTED HARVEST	AND	TAKE BY	SAMPLED	HOUSEH	OLDS (UN	IEXPANDE	D)							
Harvest	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	2	0	0	0	0	0	0	0	0	0	2
ESTIMATED HARVES	ST AN	TAKE BY	COMMUNI	TY (EXP.	ANDED)									
Harvest	0.0	0.0	0.0	2. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	2. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2. 0
ESTIMATED SEASO	ONALLY	ADJUSTE	D HARVES	Γ ANO TA	ке ву сс	MMUNITY	(EXPANDE	ED)						
Harvest	0.0	0.0	0.0	2. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2. 0
Struck and Lost	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	2. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2. 0
Total Take (%)	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumul ative Take	0.0	0.0	0.0	2. 0	2. 0	2. 0	2.0	2. 0	2. 0	2. 0	2.0	2. 0		
Cum. Take (X)	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

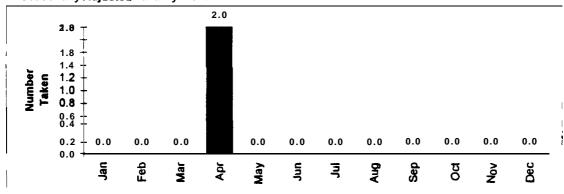
SPOTTED SEAL HARVEST BY AGE AND SEX	Reported		Estimated
	By Sample	Percent	By Community Percent
	(Unexpanded)		(Expanded)
Adult Male	2	100.0%	2.0 100.0%
Adult Female	0	0.0%	0.0 0.0%
Adult Unknown Sex	0	00%	0.0 0.0%
Juvenile Male	0	0.0%	0.0 0.0%
Juvenile Female	0	0.0%	0.0 0.0%
Juvenile Unknown Sex	0	0.0%	0.0 0.0%
Pup Male	0	0.0%	0.0 0.0%
Pup Female	0	0.0%	0.0 0.0%
Pup Unknown Sex	0	0.0%	0.0 0.0%
Male Unknown Age	0	0.0%	0.0 0.0%
Female Unknown Age	` 0	0.0%	0.0 0.0%
Unknown Sex and Age	0	0.0%	0.0 0.0%
Total	2	100.0%	2.0 100.0%

FIGURE 118. SPOTTED SEAL (Phocalargha) TAKE ESTIMATES: CLARK'S POINT, 1993

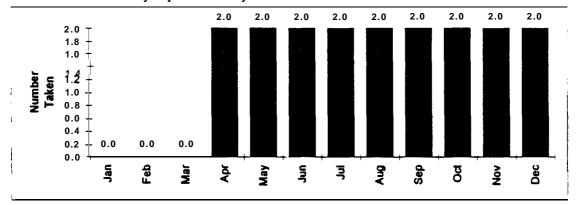
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Taka By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

SAMPUNG DESIGN: TWO STRATA

Active Other Total Total Native Households 24 432 456 Surveyed Households 23 29 52 Sampling Fraction 95.8% 6.7% 11.4% Sample Household Members 84 95 179 Estimated Household Members 87.7 1415.2 1502.8

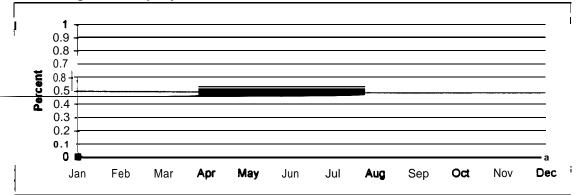
SEA LION HARVEST AND USE INFORMATION

Percent Of Native Hous	eholds:	Estimated Community Harvest and Take (Expande	∍d):
used	0.0%	Total Number Harvested	0.0
Hunted	0.0%	Total Number Struck and Lost	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.0%	Number Harvested Per Capita	0.00
Gave Away	0.0%	·	

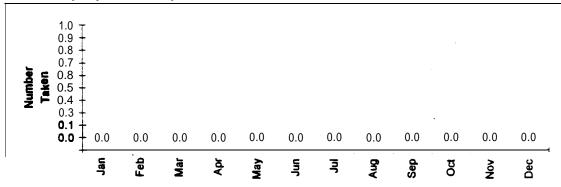
SEA LION HAP	RVEST I	BY SEA	SON									U	nknown	
	Jan	Feb	Mar	Apr	May	Jun	Jui	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVES	ST AND T	AKE BY	SAMPLE	HOUSEH	OLDS (UN	EXPANDED	D)							
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARV	EST AND	TAKE BY	COMMUN	TY(EXPA	NDED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 0
Tow Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEAS	ONALLY A	DJUSTE	HARVES	T AND TA	KEBY COI	MUNITY	(EXPANDE	D)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	-	-	-	_	_	_	_	_	-					
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA UON HARVEST BY AGE AND SEX	Reported By Sample	Percent	Estimated By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	-	0.0	
Adult Female	0		0.0	
Adult Unknown Sex	0		0.0	
Juvenile Male	0		0.0	
Juvenile Female	0		0.0	
Juvenile Unknown Sex	0		0.0	
Pup <i>Male</i>	0	-	0.0	
Pup Female	0		0.0	
Pup Unknown Sex	0		0.0	
Male Unknown Age	0		0.0	
Female Unknown Age	0		0.0	
Unknown Sex and Age	0	***	0.0	
Total	0	•	0.0	600

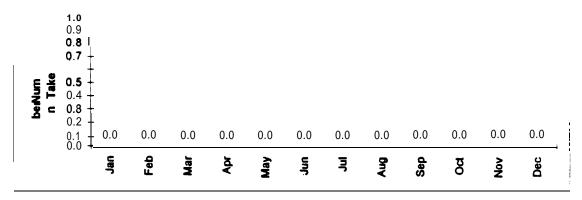
SOURCE:



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

SAMPLING DESIGN: TWO STRATA

Active Other Total
Total Native Households 24 432 456
Sun/eyed Households 23 29 52
Sampling Fraction 95.8% 8.7% 11.4%
Sample Household Members 84 95 179
Estimated Household Members 87.7 1415.2 1502.8

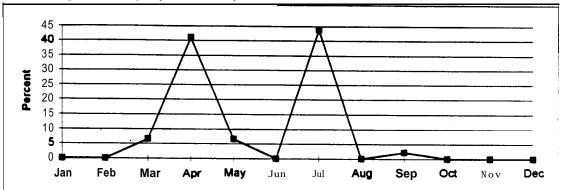
HARBOR SEAL AND SPOTTED SEAL HARVEST AND USEINFORMATION

Percent Of Native Households:	Estimated Community Harvest and Take (Expande	ed):
Used 29.8%	Total Number Harvested	44.1
Hunted 6.0%	Total Number Struck and Lost	4.2
Harvested 8.0%	Total Number Taken	48.3
Received 24.0%	Number Harvested Per Capita	0.03
Gave Away 15.0%	·	

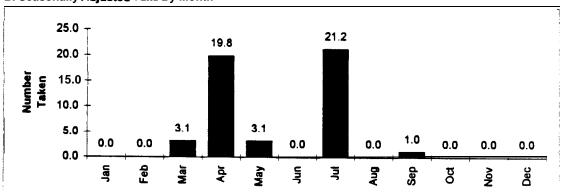
HARBOR SEAL	WIAD!	3FU 1E	U 3EAL	HARVE	SIDI	SEASUN						U	Inknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVES	. AND	TAKE BY	SAMPLED	HOUSEHOL	DS (UN	IEXPANDED)								
Harvest	0	0	3	19	3	0	3	0	1	0	0	0	0	29
Struck • A Lost	Ô	Ô	Ò	Ô	Ô	Ô	4	Ô	Ô	Ô	Ô	Ô	Ô	4
Total Take	0	0	3	19	3	0	7	0	1	0	0	0	0	33
ESTIMATED HARVES	T AND	TAKE BY	COMMUNI 7	TY (EXPAN	DED)									
Harvest	0.0	0.0	3. 1	19.8	3. 1	0.0	17. 0	0.0	1.0	0.0	0.0	0.0	0.0	44. 1
Struck and Lost	0.0	0.0	0.0	0.0	0. 0	0.0	4. 2	0.0	0.0	0.0	0.0	0.0	0.0	4. 2
Total Take	0.0	0.0	3. 1	19.8	3. 1	0.0	21. 2	0. 0	1.0	0.0	0.0	0.0	0.0	48.3
ESTI MATED SEASON	ALLY A	ADJUSTED	HARVES'	T AND TAK	E BY C	OMMUNI TY (E	CONACK	ED)						
Harvest	0.0	0.0	3. 1	19.8	3. 1	0.0	17. 0	0.0	1.0	0.0	0.0	0.0		44.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	4. 2	0.0	0.0	0.0	0.0	0.0		4. 2
Total Take	0.0	0.0	3. 1	19.8	3. 1	0.0	21. 2	0.0	1.0	0.0	0.0	0.0		48.3
Total Take (X)	0.0%	0.0%	6. 5%	41.1%	6.5%	0.0%	43.8%	0.0%	2. 2%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	3. 1	23. 0	26.1	26. 1	47. 2	47. 2	48. 3	4a. 3	48. 3	48.3		
Cum. Take (%)	0.0%	0.0%	6. 5%	47.5% 5	64.0%	54.0%	97.8%	97.8%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL AND SPOTTED SEAL	Reported		Estimated	
HARVEST BY AGE AND SEX	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	3.4%	1.0	2.4%
Adul t Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	11	37.9%	25.3	57 4%
Juvenile Male	1	3.4%	1.0	2.4%
Juvenile Female	1	3.4%	1.0	2.4%
Juvenile Unknown Sex	11	37.9%	11.5	28.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	1	3.4%	1.0	2.4%
Unknown Sex and Age	3	10.3%	3.1	7.1%
Total	29	100.0%	44.1	100.0%

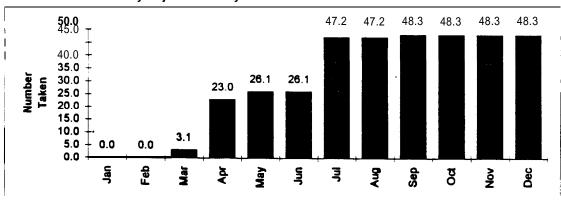
SOURCE:



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted lake By Month



SOURCE:

TABLE 121. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: DILLINGHAM. 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total

Total Native Households 24 432 458 Surveyed Households 23 29 52 Sampling Fmctiin 95.8% 6.7% 11.4%

Sample Household Members 84 95 179

Estimated Household Members 87.7 1415.2 1502.8

ISSURIQ HARVEST AND USE INFORMATION

HARBOR SEAL HARVESTINFORMATION

Percent Of Native Households:
Used 29.6%
Hunted 6.0%
Total Number Harvested 18.0
Total Number Struck and Lost 4.2
Harvested 6.0%
Received 24.0%
Gave Away 15.6%

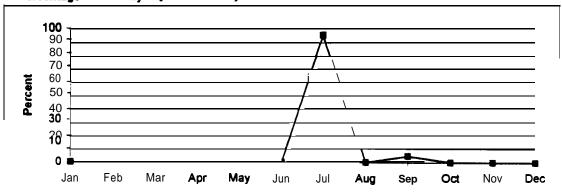
Estimated Community Hwwst and Take (Expanded):
Total Number Harvested 18.0
Total Number Truck and Lost 2.2
Number Harvested Per Capita 0.01

HARBOR SEAL	HAR	VEST BY	SEASO	N								U	nknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep_	oot	Nov	Dec	Month	Tota
REPORTED HARVEST	AND	TAKE BY S	AMPLED H	OUSEHO	LDS (UNI	EXPANDE	D)							
Harvest	0	0	0	0	0	0	3	0	1	0	0	0	0	
Struck and Lost	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Total Take	0	0	0	0	0	0	7	0	1	0	0	0	0	8
ESTI MATED HARVES	T AND	TAKE BY	COMMUNI T	Y (EXPAN	NDED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	17. 0	0.0	1.0	0.0	0.0	0.0	0.0	18.
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	4. 2	0.0	0.0	0.0	0.0	0.0	0.0	4. 2
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	21. 2	0.0	1.0	0.0	0.0	0.0	0.0	22. 2
ESTIMATEDSEAS	SONA	LLYADJUS	TEDHARVE	STANET	KEBYCC	MMUNIT	(EXPANDE	ED)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	17. 0	0.0	1.0	0.0	0.0	0.0		18.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	4. 2	0.0	0. 0	0.0	0.0	0.0		4,:
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	21. 2	0.0	1.0	0.0	0.0	0.0		22.
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.3%	0.0%	4. 7%	0.0%	0.0%	0.0%		1009
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	21. 2	21. 2	22.2	22. 2	22. 2	22. 2		
Cum. Take (%)	0.0	% 0.0%	0.0%	0.0%	0.0%	0.0%	95.3%	95. 3%	100.0%	100.0%	100.0%	100.0%		

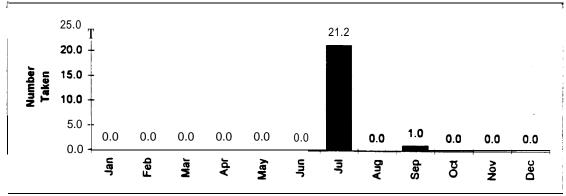
HARBOR SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	25.0%	1.0	5.8%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	25.0%	14.9	82.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	25.0%	1.0	5.8%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	25.0%	1.0	5.8%
Total	41	00.0%	18.0	100.0%

SOURCE:

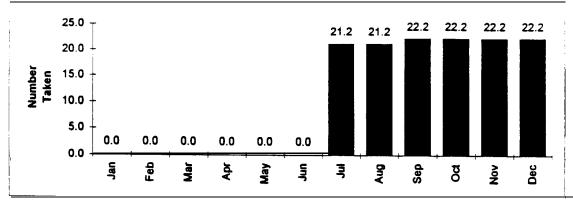
FIGURE 121. HARBOR SEAL (Phoca vituline) TAKE ESTIMATES: DILLINGHAM. 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

SAMPUNG DESIGN: TWO STRATA

Active Other Total

Total Native Households 24 432 456 Surveyed Households 23 29 52

Sampling Fraction 95.8% 6.7% 11.4%

Sample Housahold Members 84 95 1 7 Estimated Household Members 87.7 1415.2 1502.8

ISSURIQ HARVEST AND USE INFORMATION

SPOTTED SEAL HARVEST INFORMATION

Percent Of Native Households:	Estimated Community Harvest and Take (Expende	ed):
Used 29.8%	Total Number Harvested	26.1
Hunted 6.0%	Total Number Struck and Lost _	0.0
Harvested 0.0%	Total Number Taken	26.1
Received 24.0%	Number Harvested Per Capita	0.02
Gave Away 15.6%	·	

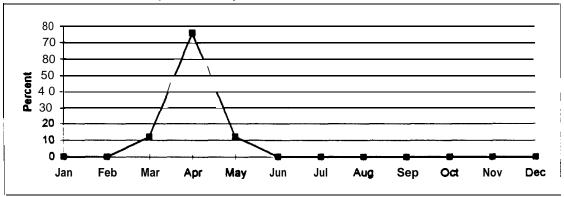
SPOTTED SEA	L HAR	VEST B	Y SEAS	ON								U	Inknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARVES	Γ AND T	AKE BY S	AMPLED	HOUSEH	iolos (t	NEXPANDE	D)							
Harvest	0	0	3	19	3	0	0	0	0	0	0	0	0	25
struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	C
Total Take	0	0	3	19	3	0	0	0	0	0	0	0	0	25
ESTIMATED HARVE	EST AND	TAKE BY	COMMUNI	TY (EXP	ANDED)									
Harvest	0.0	0.0	3. 1	19.8	3. 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26 1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. 0.	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	3. 1	19.8	3. 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20. 1
ESTI MATED SEASO	NALLY A	ADJUSTED	HARVEST	AND TA	KE BY CC	MMUNITY	(EXPAND	ED)						
Harvest	0.0	0.0	3. 1	19.6	3. 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		26. 1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	3. 1	19.8	3. 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		26. 1
Total Take (%)	0.0%	0.0%	12.0%	76.0%	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	3. 1	23. 0	26.1	26. 1	26. 1	28. 1	20. 1	26. 1	28. 1	26. 1		
Cum. Take (%)	0.0%	0.0%	12.0%	88.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

SPOTTED SEAL HARVEST BY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	10	40.0%	10.4	40.0%
Juvenile Male	1	4.0%	1.0	4.0%
Juvenile Female	1	4.0%	1.0	4.0%
Juvenila Unknown Sax	10	40.0%	10.4	40.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	1	4.0%	1.0	4.0%
Unknown Sex and Age	2	8.0%	2.1	8.0%
Total	25	100.0%		100.0%

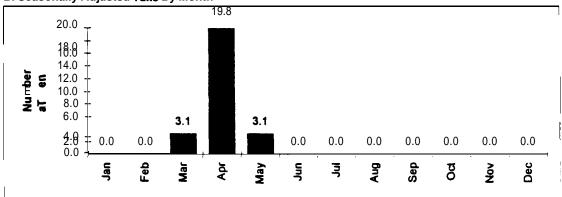
SOURCE:

FIGURE 122. SPOTTED SEAL (Phoca largha) TAKE ESTIMATES: DILLINGHAM, 1993

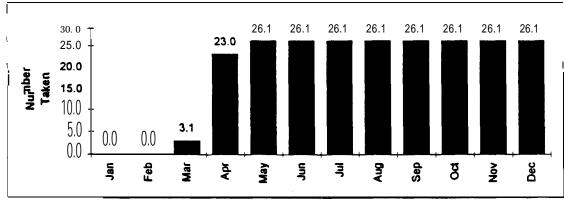
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

TABLE 123. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: MANOKOTAK, 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total Total Native Households 11 66 77 Surveyed Households 30 11 41 Sampling Fraction 100.0% 45.5% 53.296 Sample Household Members 56 140 196 **Estimated**HouseholdMembers 56.0 308.0 364.0

SEA LION HARVEST AND USEINFORMATION

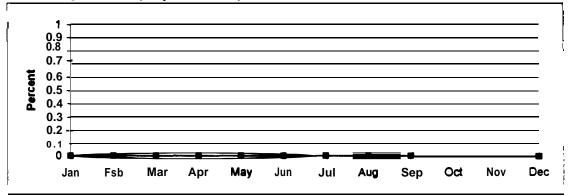
Percent Of Native Households:	Estimated Community Harvest and Take (Expande	d):
Used 37.7%	Total Number Harvested	0.0
Hunted 0.0%	Total Number Struck and Lost	0.0
Harvested 0.0%	Total Number Taken	0.0
Received 37.7%	Number Harvested Per Capita	0.00
Gave Away 0.0%	·	

SEA LION HARV	E91					_							known	
	Jan	Feb	Mu	Apr	May	Jun	Jul	Aug	Sep	oot	Nov	Dec M	onth	Tota
REPORTED HARVEST	AND	TAKE BY	SAMPLED	HOUSEHOLI	os (UN	EXPANDED))							
Harvest	a	0	0	0	0	0	0	0	0	0	0	0	0	C
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTI MATED HARVEST	' AND '	TAKE BY C	OMMUNIT	Y (EXPAND	(DED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASON	MLLY	ADJUSTED	HARVEST	AND TAKE	BY CO	MMUNITY (E	XPANDE	D)						
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	-		-	_	_	-		-			-	_		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.09	6 0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

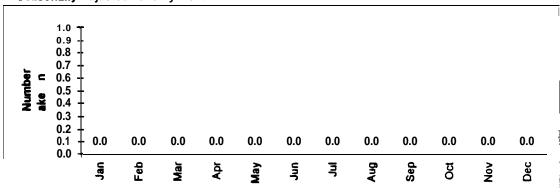
SEA LION HARVESTBY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0		0.0	
Adult Female	0	-	0.0	***
Adult Unknown Sex	0	***	0.0	***
Juvenile Male	0		0.0	
Juvenile Female	0		0.0	
Juvenile Unknown Sex	0	_	0.0	
Pup Male	0		0.0	•••
Pup Female	0	***	0.0	
Pup Unknown Sex	0		0.0	
Male Unknown Age	0		0.0	
Female Unknown Age	0		0.0	
Unknown Sex and Age	0		0.0	
Total	0		0.0	900

SOURCE:

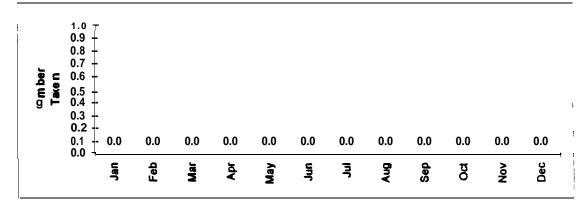
FIGURE 123. SEA LION (Eumetopias jubatus) TAKE ESTIMATES: MANOKOTAK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

56.0

308.0

SAMPLING DESIGN: TWO STRATA

Total Native Households 11 66 77
Surveyed Households 11 30 41
Sampling Fraction 100.0% 45.5% 53.2%
Sample Household Members 56 140 196

HARBOR SEAL AND SPOTTED SEAL HARVEST AND USEINFORMATION

Estimated Household Members

Percent Of Native Households:

used 100.0% Hunted 28.5% Harvested 13.8% Received 95.8% Gave Away 53.2%

Estimated Community Harvest and Take (Expanded):

364.0

Total Number Harvested
Total Number Struck and Lost
Total Number Taken
Number Harvested Per Capita

10.6
0.0

HARBOR SEAL .	4 <i>NDS</i>	POTTE	D SEAL	HARV	EST B Y	SEASO	V					Ų	Inknown	
	Jan	Feb	Mar	Apr_	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Tota
REPORTED HARVES	T AND	TAKE BY	SAMPLED	HOUSEH	OLDS (U	NEXPANDED)							
Harvest	0	1	3	0	1	0	0	2	0	0	0	0	0	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	1	3	0	t	0	0	2	0	0	0	0	0	
ESTI MATED HARVEST	AND 7	AKE BY	OMMUNI	TY (EXP	ANDED)									
Harvest	0.0	2. 2	4. 2	0.0	1.0	0.0	0.0	3. 2	0.0	0.0	0.0	0.0	0.0	10.
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. (
Total Take	0.0	2. 2	4. 2	0.0	1.0	0.0	0.0	3. 2	0.0	0. 0	0. 0	0. 0	0.0	10.
ESTIMATED SEASON	ALLY A	DJUSTED	HARVES1	ANDTA	KEBYCO	MMUNITY (EXPAND	ED)						
Harvest		2.2			1.0									
Struck and Lost	0.0	0.0 0.0	4. 2 0. 0	0.00	0.0	0.0 0.0	0.0 0.0	3.2 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0		10.60
Total Take	0.0	2. 2	4. 2	0.0	1.0	0.0	0.0	3. 2	0.0	0.0	0.0	0.0		10
fotal Take (%)	0.0%	20.8%	39.6%	0.0%	9. 4x	0.0%	0.0%	30. 2%	0.0%	0.0%	0.0%	0.0%		1009
Cumulative Take	0.0	2. 2	6. 4	6. 4	7.4	7.4	7.4	10.6	10.6	10. 6	10.6	10.6		
Cum. Take (%)	0. 0%	20.8%	60.4%	60.4%	69.8%	69.8%	69.8%	100.0%	100.0%	100.0%	100.0%	100.0%		

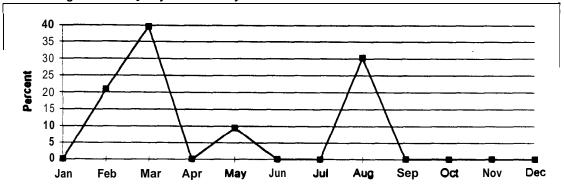
HARBOR SEAL AND SPOTTED SEAL	Reported		Estimated	
HARVEST BY AGE AND SEX	By Sample	Percent	By Communit	y Percent
	(Unexpanded)		(Expanded)	-
Adult Male	4	57.1%	7.8	71.7%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	2	28.0%	2.0	18.9%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup <i>Male</i>	1	14.3%	1.0	9.4%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	7	100.0%	10.8	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study

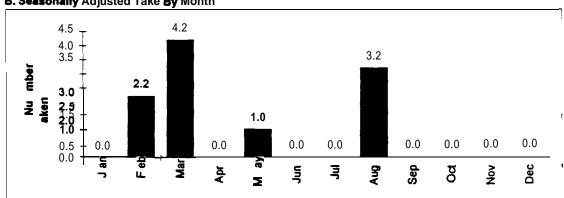
and Monitor System for Sea Lions and Harbor Seals $i\,n$ Alaska, $wi\,th$ assistance from

the Manokotak Traditional Council, 1994.

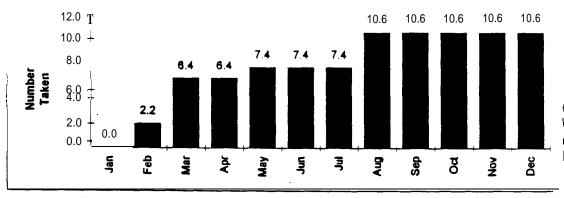
FIGURE 124. HARBOR SEAL AND SPOTTED SEAL TAKE ESTIMATES: MANOKOTAK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

TABLE 125. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: MANOKOTAK, 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total Total Native Households 11 66 77 Surveyed Housaholds 30 11 41 Sampling Fraction 100.0% 45.5% 53.2% Sample Household Members 56 140 196 364.0 **Estimated Household Members** 56.0 308.0

ISSURIQ HARVEST AND USE INFORMATION

HARBOR SEAL HARVESTINFORMATION

Percent Of Native Households:
used 100.0%
Total Number Harvest and Take (Expanded):
Total Number Struck and Lost
Harvested 13.8%
Total Number Taken
Received 95.8%
Number Harvested Per Capita
Gave Away 532%

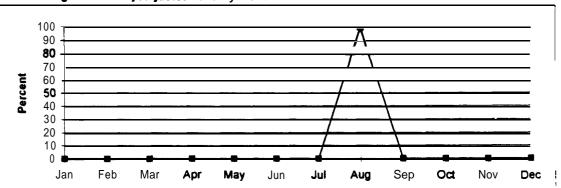
Estimated Community Harvest and Take (Expanded):
Total Number Harvested Number Taken
3.2
Number Harvested Per Capita
0.01

HARBOR SEAL I	HARV	/EST BY	SEASO	N								U	nknown	
	Jan	Feb	Mar	Apr_	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Month	Tota
REPORTED HARVEST	AND 7	TAKE BY S	AMPLED F	OUSEHO	LDS (UN	EXPANDED)							
Harvest	0	0	0	0	0	0	0	2	0	0	0	0	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Total Take	0	0	0	0	0	0	0	2	0	0	0	0	0	2
ESTIMATED HARVES	T AND	TAKE BY	COMMUNIT	TY (EXPA	NDED)									
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3. 2	0.0	0.0	0.0	0.0	0.0	3. 2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. (
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3. 2	0.0	0.0	0.0	0.0	0.0	3. 2
ESTIMATED SEASON	ALLY	ADJUSTED	HARVEST	AND TAK	E BY CO	MMUNITY (EXPAND	ED)						
Harvest	0.0	0.0	0.0	0.0	0.0	0. 0	0.0	3. 2	0.0	0.0	0.0	0.0		3. 2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0. (
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3. 2	0.0	0.0	0.0	0.0		3. 2
Total Take (%) .	0.09	% 0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3. 2	3. 2	3. 2	3. 2	3. 2		
Cum. Take (%)	0.0	0. 0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

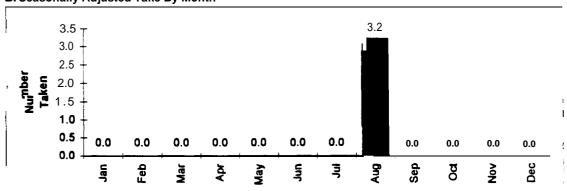
HARBOR SEAL HARVESTBY AGE AND SEX	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	50.0%	2.2	68.8%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	1	50.0%	1.0	31.3%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sax and Age	0	0.0%	0.0	0.0%
Total	² 1	00.0%	3.2 1	00.0%

SOURCE:

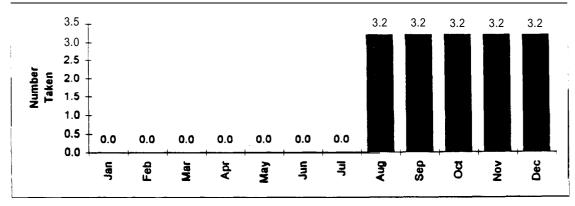
FIGURE 125. HARBOR SEAL (Phoca vitulina) TAKE ESTIMATES: MANOKOTAK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

TABLE 126. SPOTTED SEAL (Phoca largha) HARVEST AND TAKE ESTIMATES: MANOKOTAK, 1993

SAMPLING DESIGN:TWO STRATA

Active Other Total
Total Native Households 11 66 77
Surveyed Households 11 30 41
Sampling Fraction 100.0% 45.5% 53.2%
Sample Household Members 56 140 196
Estimated Household Members 50.0 306.0 364.0

ISSURIQ HARVEST AND USE INFORMATION

SPOTTED SEAL HARVESTINFORMATION

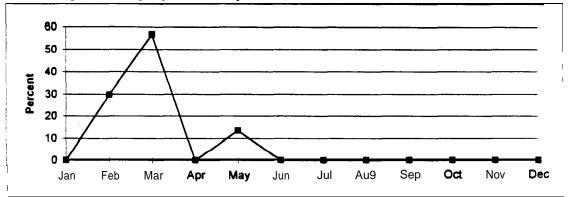
Percent Of Native Hous	seholds:	Estimated Community Harvest and Take (Expande	ed):
Used	100.0%	Total Number Harvested	7.4
Hunted	26.5%	Total Number Struck and Lost	0.0
Harvested	13.0%	Total Number Taken	7.4
Received	95.6%	Number Harvested Per Capita	0.02
Gave Away	53.2%	·	

SPOTTED SEA	LHAN												ıknown	
	Jan	Feb	Mar	<u>Apr</u>	May	Jun	Jul	Aug	<u>Sep</u>	Oct	NW	Dec N	/lonth	Total
REPORTED HARVE	ST AND	TAKE BY	SAMPLE	D HOUSI	EHOLDS (UNEXPAND	ED)							
Harvest	0	1	3	0	1	0	0	0	0	0	0	0	0	5
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOW Take	0	1	3	0	1	0	0	0	0	0	0	0	0	5
ESTI MATED HARVE	ST AND	TAKE BY	COMMUN	ITY (M	PANDEO)									
Harvest	0.0	2. 2	4. 2	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7 4
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0. 0	2. 2	4. 2	0. 0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7. 4
ESTIMATED SEA	SONAL	LYADJUST	EDHARVE	STAND	TAKEBYO	OMMUNI	Y(EXPAND	(ED)						
Harvest	0.0	2.2	4. 2	0.0		0.0		0.0	0.0	0.0	0.0	0.0		74
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	2. 2	4. 2	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		74
Total Take (%)	0.0%	28. 7%	56.8%	0.0%	13.5%	0.0%	0.0%	0. 0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	2.2	6.4	a4	7.4	74	t. 4	7.4	7.4	7.4	7.4	7.4		
Cum. Take (%)	0.0%	29. 7%	86.5%	86.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

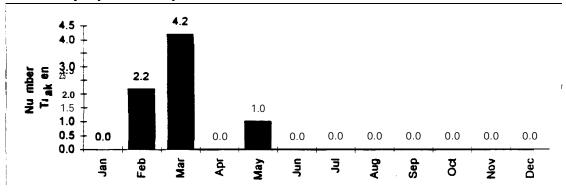
SPOTTED SEAL HARVEST BY AGE AND SEX	Reported By Sample	Percent	Estimated By Community	Dernent	
	(Unexpanded)	rescent	(Expanded)	rescent	
Adult Male	3	00.0%	5.4	73.0%	
Adult Female	0	0.0%	0.0	0.0%	
Adult Unknown Sex	0	0.0%	0.0	0.0%	
Juvenile Male	2	40.0%	2.0	27.0%	
Juvenile Female	0	0.0%	0.0	0.0%	
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	
Pup Male	0	0.0%	0.0	0.0%	
Pup Female	0	0.0%	0.0	0.0%	
Pup Unknown Sex	0	0.0%	0.0	0.0%	
Male Unknown Age	0	0.0%	0.0	0.0%	
Female Unknown Age	0	0.0%	0.0	0.0%	
Unknown Sex and Age	0	0.0%	0.0	0.0%	
Total	5	100.0%	a.4	100.0%	

SOURCE:

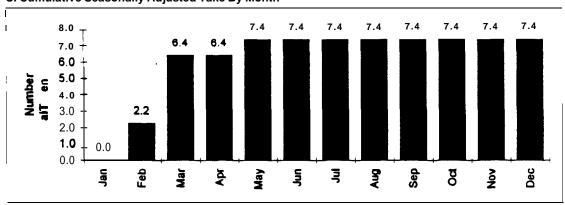
FIGURE 126. SPOTTED SEAL (Phoca largha) TAKE ESTIMATES: MANOKOTAK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

TABLE 127. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: TOGIAK. 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total

Total Native Households 3 8 116)
Surveyed Households 33 34 67
Sampling Fraction 91.7% 42.5% 57.8%
Sample Household Members 159 102 321
Estimated Household Members 173.5 381.2 554.6

SEA UON HARVEST AND USE INFORMATION

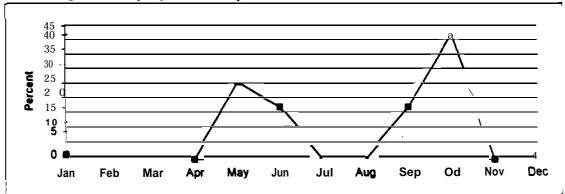
Percent Of Native Hous	eholds:	Estimated Community Harvest and Take (Expande	∌d):
used	5.0%	Total Number Harvested	3.3
Hunted	2.8%	Total Number Struck and Lost	3.3
Harvested	1.9%	Total Number Taken	6.5
Received	4.7%	Number Harvested Per Capita	0.01
Gave Away	0.9%		

SEA LION HAR	VEST E	SY SEAS	SON									u	Jnknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST	AND TA	KE BY SA	WPLED H	OUSEH	OLDS (UN	EXPANDE	D)							
Harvest	0	0	0	0	0	1	0	0	1	1	0	0	0	3
Struck and Lost	0	0	0	0	1	0	0	0	0	1	0	0	1	3
TOW Take	0	0	0	0	1	1	0	0	1	2	0	0	1	6
ESTIMATED HARVE	ST AND 1	TAKE BY C	OMMUNI	TY (EXPA	NDED)									
Harvest	0.0	0.0	0.0	0.0	0. 0	1.1	0.0	0.0	1.1	1.1	0.0	0.0	0.0	3. 3
Struck and Lost	0.0	0.0	0.0	0.0	1. 1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1	3. 3
Total Take	0.0	0.0	a0	0.0	1. 1	1.1	0.0	0.0	1.1	2. 2	0.0	0.0	1.1	6.5
ESTIMATED SEASO	NALLY A	DJUSTED	HARVEST	AND TA	KE BY CO	MMUNITY	(EXPANDE	(C)						
Harvest	0.0	0.0	0.0	0.0	0.0	1.1	0. 0	0.0	1.1	1.1	0. 0	0. 0		3. 3
Struck and Lost	0.0	0.0	0.0	0.0	1.6	0. 0	0.0	0.0	0.0	1.6	0.0	0.0		3. 3
Total Take	0.0	0.0	0.0	0.0	1.6	1.1	0.0	0.0	1.1	2. 7	0.0	0.0		6. 5
Total Take (%)	0.0%	0.0%	0.0%	0.0%	25.0%	16.7%	0.0%	0.0%	16. 7%	41.7%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	1.6	2. 7	2.7	2. 7	3. 8	6. 5	6. 5	6. 5		
Cum. Take (X)	0.0%	0.0%	0.0%	0.0%	25.0%	41.7%	41.7%	41.7%	58.3%	100.0%	100.0%	100.0%		

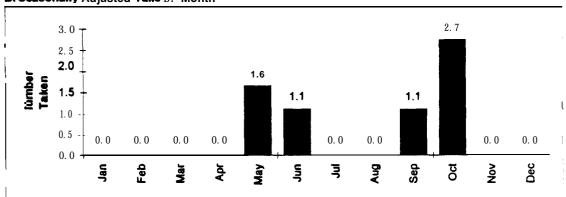
SEA LION HARVEST BY AGE AND SEX	Reported		Estimated
	By Sample	Percent	By Community Percent
	(Unexpanded)		(Expanded)
Adutt Male	0	0.0%	0.0 0.0%
Adult Female	0	0.0%	0.0 0.0%
Adult Unknown Sex	1	33.3%	1.1 33.3%
Juvenile Male	1	33.3%	1.1 33.3%
Juvenile Female .	0	0.0%	0.0 0.0%
Juvenile Unknown Sex	1	33.3%	1.1 33.3%
Pup Male	0	0.0%	0.0 0.0%
Pup Female	0	0.0%	0.0 0.0%
Pup Unknown Sex	0	0.0%	0.0 0.0%
Male Unknown Age	0	0.0%	0.0 0.0%
Female Unknown Age	0	0.0%	0.0 0.0%
Unknown Sex and Age	0	0.0%	<u> </u>
Total	3	100.0%	3.3 100.0%

SOURCE:

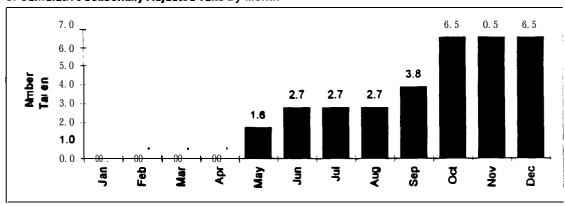
FIGURE 127. SEA LION (Eumatopias jubatus) TAKE ESTIMATES: TOGIAK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

SAMPLING DESIGN: TWO STRATA

Active Other Total
Total N a t i v e Households 36 80 116
Surveyed Households 33 34 67
Sampling Fraction 91.7% 42.5% 57.8%
Sample Household Member9 159 lb2 321
Estimated Household Member9 173.5 381.2 554.6

HARBOR SEAL AND SPOTTED SEAL HARVEST AND USEINFORMATION

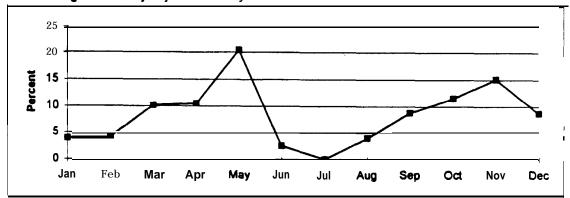
Percent Of Native Households:	Estimated Community Harvest and Take (Expanded):
Used 72.2%	Total Number Harvested 199.6
Hunted 01.3%	Total Number Struck and Lost 64.9
Harvested 49.2%	Total Number Taken 264.5
Received 54.4%	Number Harvested Per Capita 0.38
Gave Away 43.1%	·

HARBOR SEA	LAND			. nakv	ESIDI	SEASU	V					·	Inknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	TOV
REPORTED HARVE	ST AND	TAKE BY	SAMPLED	HOUSE	HOLDS(UN	EXPANDE	D)							
Harvest	6	8	18	21	30	4	0	4	9	10	17	12	0	139
Struck and Lost	0	1	3	1	5	1	0	2	7	10	6	3	2	41
Total Take	6	9	21	22	36	5	0	6	16	20	23	15	2	180
ESTIMATED HARVE	EST AND	TAKE BY	COMMUNI '	TY (EXP	NDED)									
Harvest	10. 3	10.0	23.4	26. 7	45. 3	5. 6	0.0	6. 9	12.3	13. 4	27. 4	18.1	0.0	199.6
Struck and Lost	0.0	1. 1	3. 3	1.1	6.0	1.1	0.0	3. 4	10.2	16. 0	11.6	4.5	4. 7	64.9
Total Take	10. 3	11. 1	26.7	27. 6	53. 3	6. 7	0.0	10. 3	22.5	2s. 4	30. 0	22.7	4. 7	284. 5
ESTIMATED SEAS (NALLY	ADJUSTED	HARVES	AND T	WE BY CO	MMUNI TY	(EXPANDE	ED)						
Harvest	10. 3	10.0	23. 4	a. 7	46. 3	5.6	0.0	6.0	12. 3	13.4	27. 4	16. 1		199. 6
Struck and Lost	0.0	12	3. 5	1. 2	6.6	12	0.0	3. 7	11.0	17. 2	12.5	4. 9		64. 9
Total Take	10. 3	11.2	27. 0	27. 9	54.0	6.6	0.0	10.6	23. 3	30. 6	39.9	23. 0		264. 5
Total Take (X)	3.9%	4. 2%	10.2%	10.5%	20. 4%	2.6%	0.0%	4.0%	8.8%	11.6%	15. 1%	0. 7%		100%
Cumulative Take	10.3	21.5	46. 4	76. 3	130. 3	137.1	137. 1	147.7	171 .0	2Ul . 6	241.5	264. 5		
Cum. Take (%)	3.9%	6.1%	18.3%	28.9%	49.2%	51.8%	51.8%	55.8%	64.6%	702%	91.3%	100.0%		

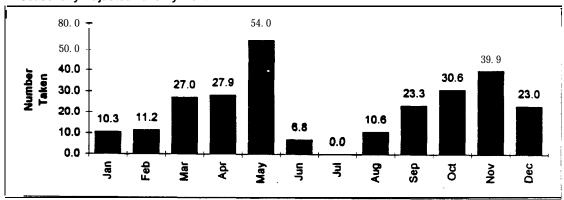
HARBOR SEAL AND SPOTTED SEAL	Reported		Estimated	
HARVEST BY AGE AND SEX	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	35	25. 2%	50. 8	25.5%
Adult Female	14	10.1%	19. 1	9.5%
Adult Unknown Sex	48	33. 1%	71.8	35.9%
Juvenile Male	10	7. 2%	14. 7	7.4%
Juvenile Female	9	8.5%	12. 3	8. 2%
Juvenile Unknown Sex	20	14.4%	24. 3	12. 2%
Pup Male	1	0.7%	2. 4	1.2%
Pup Female	٥	0.0%	0. 0	0.0%
Pup Unknown Sex	4	2.9%	4. 4	2. 2%
Male Unknown Age	0	0.0%	0. 0	0.0%
Female Unknown Ape	0	0.0%	0. 0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	139	100.0%		100.0%

SOURCE:

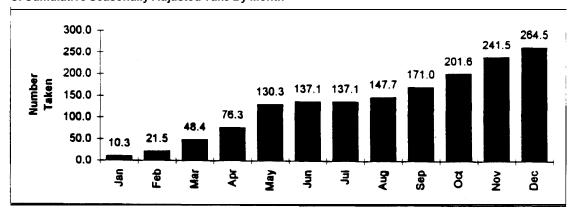
FIGURE 128. HARBOR SEAL AND SPOTTED SEAL (Phoca vitulina) TAKE ESTIMATES: TOGIAK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

TABLE 129. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: TOGIAK. 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total

 Total Native Households
 36
 80
 116

 Surveyed Households
 33
 34
 67

 Sampling Fraction
 91.796
 42.5%
 57.8%

 Sample Household Members
 159
 162
 321

 Estimated
 Household
 Members
 173.5
 381.2
 554.6

ISSURIQ HARVEST AND USE INFORMATION

HARBORSEAL HARVESTINFORMATION

Percent Of Native Households:
Used 72.2%

Hunted 61.3%

Harvested 49.2%

Received 34.4%

Gave Away 43.1%

Estimated Community Harvest and Take (Expanded):

24.9

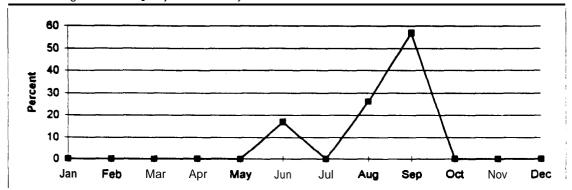
Total Number Struck and Lost
14.7

Total Number Taken
Number Harvested Per Capita
0.04

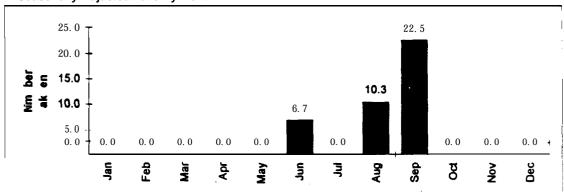
HARBOR SEAL	HAR	VEST BY	SEASO	ON								U	nknown	
	Jan	Feb	Mar	Apr_	May_	Jun	ابيل	Aug	Sep_	Oct	Nov	Dec	Month	Total
REPORTED HARVE	ST MD	TAKE BY	SAMPLED	HOUSEHO	DLDS (UN	EXPANDED)							
Harvest	0	0	0	0	0	4	0	4	9	0	0	0	0	17
Struck and Lost	0	0	0	0	0	1	0	2	7	0	0	0	0	10
Total Take	0	0	Q	0	0	5	0	6	16	0	0	0	0	27
ESTIMATED HARVE	ST MD	TAKE BY	COMMUNI T	TY (EXPA	NDED)									
Harvest	0.0	0.0	0.0	0.0	0.0	5. 6	0.0	6. 9	12. 3	0.0	0.0	0.0	0.0	24.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3. 4	10. 2	0.0	0.0	0.0	0.0	14.7
Total Take	0.0	0.0	0.0	0.0	0.0	6. 7	0.0	10. 3	22.5	0.0	0.0	0.0	0.0	39. 6
ESTIMATEDSEASO	NALLY.	ADJUSTE	DHARVES	TANDTA	KE BYC C	MMUNITY	EXPANDE	ED)						
Harvest	0.0	0.0	0.0	0.0	0.0	5. 6	0.0	6. 0	12.3	0.0	0.0	0.0		24.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.4	102	0.0	0.0	0.0		14.7
Total Take	0.0	0. 0	0. 0	0.0	0.0	6. 7	0.0	10.3	22. 5	0.0	0.0	0.0		39.6
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	17.0%	0.0%	26. 1%	66. 9%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	6. 7	6. 7	17. 0	39.6	36. 6	39.6	39. 6		
Cum. Take (%)	0.0	% 0.0%	0.0%	0.0%	0.0%	17.0%	17.0%	43.1%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SW	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	11.8%	4.7	18.9%
Adult Female	2	11.8%	2.2	8.8%
Adult Unknown Sex	8	47.1%	10.0	40.2%
Juvenile Male	3	17.6%	4.5	18.2%
Juvenile Female	1	5.9%	2.4	9.5%
Juvenile Unknown Sex	1	5.9%	1.1	4.4%
Pup Mate	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	17	100.0%	24.9	100.0%

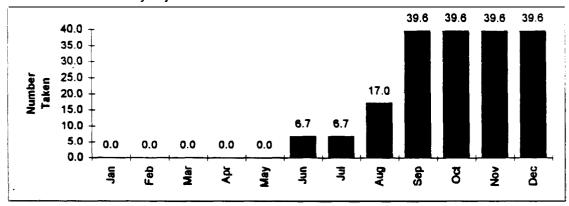
SOURCE:



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

TABLE 130. SPOTTED SEAL (Phoca largha) HARVEST AND TAKE ESTIMATES: TOGIAK, 1993

SAMPLING DESIGN: TWO STRATA

Active Other Total I
Total Native Households 36 80 116
Surveyed Households 33 34 67
Sampling Fraction 91.7% 42.5% 57.9%
Sample Household Members 159 192 321
Estimated Household Members 173.5 381.2 554.6

ISSURIQ HARVEST AND USE INFORMATION

SPOTTED SEAL HARVESTINFORMATION

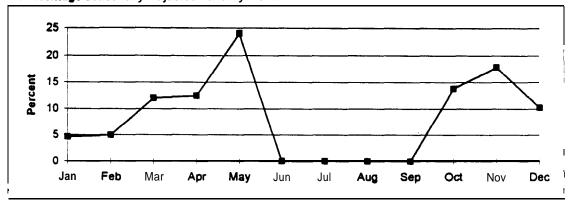
Percent Of Native Households:	Estimated Community Harvest and Take (Expanded):
Used 72.2%	Total Number Harvested 174.7
Hunted 61.3%	Total Number Struck and Lost 50.2
Harvested 49.2%	Total Number Taken 225.0
Received 54.4%	Number Harvested Per Capita 0.32
Gave Away 43.1%	·

SPOTTED SEA													known	1
	Jan	Feb	Mar	Apr	<u>May</u>	Jun	Jui	Aug_	Sep_	Oct	Nov	Dec M	onth	Tota
REPORTED HAP	MEST AN	DTAKEBY	SAMPLE	DHOUSE	HOLDS (UI	NEXPANDE	D)							
Harvest	6	8	18	21	30	0	0	0	0	10	17	12	0	122
Struck and Lost	0	1	3	1	5	0	0	0	0	10	6	3	2	31
Total Take	6	9	21	22	35	0	0	0	0	20	23	15	2	153
ESTIMATED HARVE	EST AND	TAKE BY	COMMUN	ITY (EXPA	WDED)									
Harvest	10.3	10.0	23. 4	26.7	45.3	0.0	0.0	0.0	0.0	13. 4	27. 4	18. 1	0.0	174. 7
Struck and Lost	0.0	1.1	3. 3	1.1	8. 0	0.0	0.0	0.0	0.0	16.0	11.6	4.5	4. 7	50. 2
Total Take	10.3	11. 1	a. 7	27.8	53.3	0.0	0.0	0.0	0.0	a. 4	39.0	22. 7	4. 7	225. 0
ESTIMATEIS EAS	NALLYA	CJUSTED	HARVEST	MOTA	KEBYC	MMUNITY	(EXPANDE	ED)						
Harvest	10.3	10.0	23. 4	28. 7	48. 3	0.0	0.0	0.0	0.0	13. 4	27. 4	18. 1		174.7
Struck and Lost	0.0	1. 2	3.6	1. 2	8.8	0.0	0.0	0.0	0.0	17. 8	12. 11	5. 0		50.2
Total Take	10.3	11.2	27. 0	27. 9	34. 2	0.0	0.0	0.0	0.0	31.0	4a. 2	23. 1		225.0
Total Take (%)	4.6%	5.0%	120%	12.4%	24.1%	0.0%	0.0%	0.0%	0.0%	13. 8%	17. 2%	10.3%		100%
Cumulative Take	10.3	21.5	48.6	76.5	130.6	130. 6	130.6	130.6	130.6	161.6	201.8	225. 0		
Cum. Take(%)	4.6%	9.6%	21.6%	34.0%	58.1%	58.1%	58.1%	58.1%	58.1%	71.9%	89.7%	100.0%		

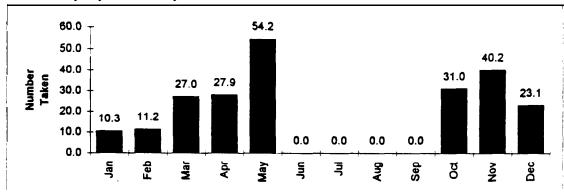
SPOTTED SEAL HARVESTBY AGE AND S&X	Reported By Sample	Percent	Estimated By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	33	27.0%	46.1	20.4%
Adult Female	12	9.8%	16. 9	9.7%
Adult Unknown Sex	38	31.1%	61.6	35.3%
Juvenile Male	7	5.7%	10.2	5.8%
Juvenik Female	8	6.6%	10.0	5.7%
Juvenile Unknown Sex	19	15.8%	23.3	13.3%
Pup Male	1	0.8%	2.4	1.3%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	4	3.3%	4.4	2.5%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	122	100.0%	174.7	100.0%

SOURCE:

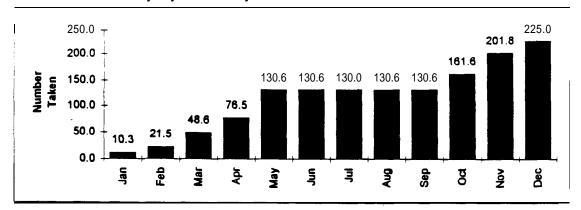
FIGURE 130. SPOTTED SEAL (Phocr largha) TAKE ESTIMATES: TOGIAK, 1993



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

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